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444 CTTATTCCTTAAACACACTGATATCATTTAAAGCCACTAGAGAGACTGAACTCA 383  
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64436 CTTATTCCTTAAACACACTGATATCATTTAAAGCCACTAGAGAGACTGAACTCA 64895  
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65016 GCAGGGGAGACAGTATGACATCTCTGAGAGTGAAGGAGCAGCTGGGAGGAGGAGAGC 65075  
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624 CAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 683  
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65136 CAGGAAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGAAGTGA 65195  
684 AAGGCAAGTCT 743  
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158380/c AX458380 621 bp DNA linear PAT 08-JUL-2002  
US INITIATION Sequence 5 from Patent WO246411.  
ESSION AX458380  
STION AX458380.1 GI:21725048  
WORDS  
HUMAN human.  
HUMANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.  
REFERENCE  
1  
AUTHORS  
Lasek A.W., Krasnow R. and Baughn M.R.  
TITLE  
Intestinal proteins  
JOURNAL  
Patent: WO 0246411-A 5 13-JUN-2002;  
Incyte Genomics, Inc. (US)  
FEATURES  
Location/Qualifiers  
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Db 441 AATCATAGAAAGTATGATGAGATCCCAAGAGAGAGAGAGAGAGAGAGAGAGAGAG 382  
440 CCAACAGCGCCACATAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 509  
Db 381 CCAACAGCGCCACATAGACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 322  
510 GAGACAGCTGATCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 569  
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630 AGGTGACACTTCAACAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 689  
Db 201 AGGTGACACTTCAACAAAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 142  
690 AGGTGCTCTGTTCTGCTGCTATCCAGCCAGTGAAGAGAGAGAGAGAGAGAGAGAG 749  
Db 141 AGGTGCTCTGTTCTGCTGCTATCCAGCCAGTGAAGAGAGAGAGAGAGAGAGAGAG 82  
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RESULT 10  
AK000134  
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DEFINITION Homo sapiens cDNA FLJ20127 fls, clone COL06176.  
ACCESSION AK000134  
VERSION AK000134.1 GI:7020022  
KEYWORDS  
cDNA capping: fls (full insert sequence).  
SOURCE  
Homo sapiens  
Homo sapiens



For an  
Office

Page 1

OM nucleic - nucleic search, using sw model

Run on: November 22, 2002, 02:33:06 ; Search time 2189 Seconds

(without alignments)  
11956.102 Million cell updates/sec

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Scoring table: OLIGO\_NUC

Gapop 60.0 , Gapext 60.0

Word slzc :

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post processing: listing first 45 summaries

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169:	

Pred. NO. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysts of the total score distribution.

## SUMMARIES

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3	148	9.2	343	12	BG20178791	BG20178791.RST21139
C 4	112	6.9	112	9	A1581835	A1581835.R54908.x
5	111	6.7	12	BG217603	BG217603.RST37315	
C 6	109	6.7	530	17	QA0439960	QA0439960.HS..5059.F

[illegible]

## ALIGNMENTS

	RESULT 1	
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LOCUS	(A1833131)	
DEFINITION	358 bp mRNA linear EST J3-JUL-1999	
ACCESSION	U075007.x1 Barstead colon HPLnb7 Homo sapiens cDNA clone	
VERSION	IMAGE:2377835.3 similar to SW:B61-RABIT Q05004 BRUSH BORDER 61.9	
KEYWORDS	KD PROTEIN PRECURSOR.; mRNA sequence.	
SOURCE	A1833131	
ORGANISM	A1833131.1 GI:5455111	
TITLE	human.	
JOURNAL COMMENT	Human. Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 358) Hillier,L., Allen,M., Bowles,L., Duboue,T., Getzel,G., Jost,S., Kizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin J., Moore,B., Scheilenberg,K., Steptoe,M., Tan,F., Theisling,B., White,Y., Wyile,T., Waterston,R. and Wilson,R. WashU-NCI Human EST Project Unpublished (1997) Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel.: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu This clone is available royalty-free through LNL ; contact the IMAG Consortium (info@image.llnl.gov) for further information. Seq primer: -40UP from GIDCO.	

**FEATURES**

<b>Source</b>	location/Qualifiers
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	/dev_stage="adult, age 25"
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**BASE COUNT** 106 a 60 c 74 g 118 t

**ORIGIN**

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Best Local Match
      Query similarity 100.0%, Ident. No. 1,36-76;
Matches 268; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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**Db** 268 AATCCCATCTGACCATCTTCTTCTTGAGAAAGCCCGAACACATGATGCATTCATCAAAAGCAA 209

**Y** 1388 AACATCAGAGAGANTGACATGATGCGAAGAAGATTGATGACTTCATGSGTTACATTCGA 1447  
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**Db** 208 AACATCAGAGAGANTGACATGATGCGAAGAAGATTGATGACTTCATGSGTTACATTCGA 149

**Y** 1448 TATCTCATCTTAAAGAGCATTTCTTGAGAAAGCCCGAACACATGATGCATTCATCAAAAGCAA 1507  
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**Db** 148 TATCTCATCTTAAAGAGCATTTCTTGAGAAAGCCCGAACACATGATGCATTCATCAAAAGCAA 189

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**Y** 1568 ATTATATATATTTAACTATATTTGTT 1595  
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**Db** 28 ATTATATATATTTAACTATATTTGTT 1

**RESULT 2**  
BG199761 905 bp mRNA linear EST 21-APR-2001

**LOCUS** BG199761

**DEFINITION** RST19055 Altherys RAGE Library Homo sapiens CDNA, mRNA sequence.

**ACCESSION** BG199761

**VERSION** BG199761.1 GI:13721448

**KEYWORDS** EST.

**SOURCE** human.

**ORGANISM** Homo sapiens

**REFERENCE** Eumariyoka; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
1 (bases 1 to 905)

**AUTHORS** Harrington,J.J., Sheff,B., Rundlett,S., Jackson,P.D., Perry,R.,  
Cain,S., Leventhal,C., Thornton,M., Ramchandran,R., Whittington,J.J.,  
Lerner,L., Veloso,N., Kika,A.A., Hess,J., Cothen,K., Lo,K., Offenbacher,  
J., Danzig,J. and Ducat,K.:  
Creation of genome-wide protein expression libraries using random  
activation of gene expression  
Nat. Biotechnol. 19 (5), 440-445 (2001)  
21227151

**TITLE** CONTACT: Scott J. Cain

**JOURNAL MEDLINE COMMENT** Atherys, Inc.  
3201 Carnegie Ave, Cleveland, OH 44115, USA  
Tel.: 216 431 9900  
Fax: 216 361 9596  
Email: scaine@atherys.com

FEATURES					
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ORIGIN					
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Best Local Similarity	99.1%	Pred. No. 6e-45:			
Matches 319;	Conservative	0;	Mismatches	3;	Indels 0; Gaps
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Oy	412 GCAGATCCGACCAGACCTTCCACCAGTGATACAGCACACACACATATATAT	471			
Dd	133 GCAGATCCGACCAGACCTTTCACCGAGGTGACACACACAGGGCCACATACAC	192			
Oy	472 AGCCACATCTCTCAACCTCGAGANTACGACTGCAGGGGAGACACACATCTCGCT	511			
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Oy	512 GGAGGTGAGGAGACCACTTGGGAGCGCAGGAACCAATATATGGCGGATTTCTTAGGCCAC	591			
Dd	253 GGAGGTGAGGAGACCACTTGGGAGCGCAGGAACCAATATATGGCGGATTTCTTAGGCCAC	312			
Oy	592 GATGTTTCCCCAGGCGGTGATGGAGAGTCTCTGAGGAAGTACTGATTCATCAACAAG	651			
Dd	313 GATGTTTCCCCAGGCGGTGATGGAGAGTCTCTGAGGAAGTACTGATTCATCAACAAG	372			
Oy	652 CACCTACTGCTGACCTTCACT	673			
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<hr/>					
RESULT 3					
BG201797					
LOCUS	BG201797	343 bp	mRNA	linear	EST 21-APR-2003
DEFINITION	RST11139 Athersys RAGE Library Homo sapiens CDNA. mRNA sequence.				
ACCESSION	BG201797				
VERSION	BG201797.1 GI:13723484				
KEYWORDS	EST.				
SOURCE	human.				
ORGANISM	Homo sapiens				
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	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
REFERENCE	1 (bases 1 to 343)				
AUTHORS	Harrington,J.J., Sherf,B., Rundlett,S., Jackson,P.D., Perry,R., Cain,S., Leventhal,C., Thornton,M., Ramachandran,R., Whittington,J., Lerner,L., Costanzo,D., McEillipott,K., Bozler,S., Mays,R., Smith,E., Veloso,N., Klika,A., Hess,J., Colbran,K., Lo,K., Olenbacher,J., Danzig,J., and Ducar,M.				
TITLE	Creation of genome-wide protein expression libraries using random activation of gene expression				
JOURNAL	Nat. Biotechnol. 19 (5), 440-445 (2001)				
MEDLINE	2122151				
COMMENT	Contact: Scott J. Cain Athersys, Inc. 3201 Carnegie Ave, Cleveland, OH 44115, USA Tel.: 216 431 9900 Fax: 216 361 9596 Email: scalcina@atersys.com High quality sequence stop: 293.				

GenCore version 5.1.3  
Copyright (c) 1993 - 2002 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 22, 2002, 02:33:06 : Search time 2189 Seconds  
(without alignments)  
11956.102 Million cell updates/sec

Title: US-09-729-454-3

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Scoring table: D11G0\_NMC  
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Searched: 16154066 seqs, 8097743376 residues

Word size: 0

Total number of hits satisfying chosen parameters: 32308132

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: listing first 45 summaries

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Prod. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	268	16.6	358 9	AI833131 at75d06.x
2	169	10.5	905 12	BG199761 RST19055
3	148	9.2	343 12	BG201797 RST21139
4	112	6.9	112 9	AI581835 at94908.x
5	111	6.9	946 12	BG217603 RST17315
6	109	6.7	530 17	AQ439960 HS_5059_B

7	88	5.4	634 13	B1764226
8	45	2.8	327 10	AM842215
9	32	2.0	664 10	BB625007
10	32	2.0	3267 17	AK019469
11	27	1.7	573 17	A2454451
12	27	1.7	630 10	BB562445
13	24	1.5	378 12	BF721682
14	24	1.5	446 10	BB662365
15	24	1.5	597 12	BB608025
16	24	1.5	671 10	BB605016
17	23	1.4	208 10	R75193
18	23	1.4	227 13	BG942595
19	23	1.4	252 10	AM522484
20	23	1.4	279 10	AM087776
21	23	1.4	357 9	A1136832
22	23	1.4	375 12	BG514625
23	23	1.4	403 9	A1482526
24	23	1.4	418 10	AMA94429
25	23	1.4	418 13	BI884210
26	23	1.4	434 13	BI94352
27	23	1.4	436 9	AL047005
28	23	1.4	472 10	AM435156
29	23	1.4	490 13	BM445719
30	23	1.4	492 14	BQ018316
31	23	1.4	495 14	C93956
32	23	1.4	521 12	BG579297
33	23	1.4	536 12	BF510845
34	23	1.4	537 13	BM485280
35	23	1.4	544 14	BM889987
36	23	1.4	563 10	AM526128
37	23	1.4	564 13	BI402698
38	23	1.4	580 13	BM030140
39	23	1.4	588 14	BM973554
40	23	1.4	598 17	BH323298
41	23	1.4	620 14	BQ574501
42	23	1.4	622 9	AU039013
43	23	1.4	622 14	BM683810
44	23	1.4	623 14	BM971486
45	23	1.4	639 14	BQ190688

## ALIGNMENTS

RESULT 1  
AI833131/c 358 bp mRNA linear EST 13-JUL-1999  
LOCUS  
DEFINITION  
at75d06.x1 Barstead colon HPLRB7 Homo sapiens cDNA clone  
IMAGE:2377635 3' similar to SW:BB61.PABIT Q05004 BRUSH BORDER 61.9  
KD PROTEIN PRECURSOR. ; mRNA sequence.  
ACCESSION  
AI833131  
VERSION  
AI833131.1 GI:5455111  
KEYWORDS  
EST.  
SOURCE  
human.  
ORGANISM  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homindae; Homo.  
REFERENCE  
1 (bases 1 to 358)  
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Geisler, G., Jost, S.,  
Kizman, D., Kucaba, T., Lacy, M., Le, N., Lennon, G., Marra, M., Martin  
J., Moore, B., Schellenberg, K., Sequeira, M., Tan, F., Theising, B.,  
White, Y., Wyllie, T., Watson, R., and Wilson, R.  
TITLE  
Washington University School of Medicine  
JOURNAL  
Contact: Wilson RK  
COMMENT  
Unpublished (1997)  
Washington University School of Medicine  
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 266 1800  
Fax: 314 266 1810  
Email: testewatson.wustl.edu  
This clone is available royalty-free through LMG; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Seq primer: -40UP from Gibco.



## FEATURES

SOURCE

Location/Qualifiers

1..343

/organism="Homo sapiens"

/db\_xref="taxon:9606"

/clone\_lib="Athersys RAGE Library"

/note="See 'Creation of Genome-wide Protein Expression Libraries using Random Activation of Gene Expression', Nature Biotechnology, in press. Note that even though the cell type indicated is HT1080, since a random activation method was used, these sequence tags are not necessarily expressed in HT1080 under normal circumstances."

HASH COUNT

102 a 100 c 85 g 56 t

ORIGIN

Query Match  
Best Local Similarity 100.0%; Score 148; DB 12; Length 343;  
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

355 AAAGCACTAAGACAGACGAGCTGAGATTAAGAAATCATAGAGAACTAGATGACA 414  
|||||

Db

81 AAAGCACTAAGACAGACGAGCTGAGATTAAGAAATCATAGAGAACTAGATGACA 414  
|||||

QY

415 GATCCACACCAACACCTTTACCCAGTCAACACCAACCAACCAACATAGACACAC 474  
|||||

Db

141 GATCCACACCAACACCTTTACCCAGTCAACACCAACCAACCAACATAGACACAC 474  
|||||

QY

475 CACCATCTCAACCTCGAGATAGCTAC 502  
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Db

201 CACCATCTCAACCTCGAGATAGCTAC 502  
|||||

RESULT 4

A1581835/c

LOCUS

DEFINITION

A1581835

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE

AUTHORS

TITLE

JOURNAL

COMMENT

FEATURES

SOURCE

BASE COUNT

ORIGIN

Query Match

Best Local Similarity

Matches 111; Conservative

QY

Db

A1581835

A1581835

A1581835

A1581835

112 bp mRNA linear EST 06-APR-1999  
at94408.x1 Harstead colon HPLRB7 Homo sapiens cDNA clone  
IMAGE:2173310 3' similar to SW:BB61.RABIT Q05004 BRUSH BORDER 61.9  
KD PROTEIN PRECURSOR. ; mRNA sequence.  
A1581835  
A1581835.1 GI:4567732  
EST.  
human.  
Homo sapiens  
Mammalia; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
1 (bases 1 to 112)  
Hillier, L., Allen, M., Bowles, L., Dubuque, T., Getse, G., Jost, S.,  
Krisman, D., Kucaba, T., Lacy, M., Le, N., Lennan, G., Matra, M., Martin,  
J., Moore, B., Schellenberg, K., Steptoe, M., Tan, F., Theising, B.,  
White, Y., Wylie, T., Waterston, R. and Wilson, R.  
Washington University School of Medicine  
Contact: Wilson RK  
Unpublished (1997)  
Washington University School of Medicine  
444 Forest Park Parkway, Box 8501, St. Louis, MO 63108  
Tel: 314 286 1800  
Fax: 314 286 1810  
Email: est@wustl.edu  
This clone is available royalty-free through LNL; contact the  
IMAGE Consortium (info@image.llnl.gov) for further information.  
Seq primer: -400p from GIBCO.  
Location/Qualifiers  
1..112  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="Athersys RAGE Library"  
/sex="male"  
/dev\_stage="adult, age 25"  
/lab\_host="DH10B (phage resistant)"  
/note="Organ: colon; Vector: pUT3D-Pac (Pharmacia) with a  
modified polylinker; Site: 1; EcoRI; Site 2; NotI; 1st  
strand cDNA was primed with a Not I - oligo(dT) primer [5'

6.9%; Score 111; DB 12; Length 946;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

Db

A1581835

A1581835

946 bp mRNA linear EST 21-APR-2001  
RST37315 Athersys RAGE Library Homo sapiens cDNA, mRNA sequence.  
BG217603  
BG217603.1 GI:13743624  
EST.  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
1 (bases 1 to 946)  
Harrington, J.J., Sherf, B., Rundlett, S., Jackson, P.D., Perry, R.,  
Cain, S., Leventhal, C., Thornton, M., Ramchandran, R., Whittington, J.,  
Lerner, L., Costanzo, D., McElligott, K., Booser, J., May, R., Smith,  
E., Veloso, N., Kikva, A., Hess, J., Cottrien, K., Lo, K., Offenbacher,  
J., Danzig, J. and Ducar, M.  
Creation of genome-wide protein expression libraries using random  
activation of gene expression  
Nat. Biotechnol. 19 (5), 440-445 (2001)  
Contact: Scott J. Cain  
Athersys, Inc.  
3201 Carnegie Ave, Cleveland, OH 44115, USA  
Tel: 216 431 9900  
Fax: 216 361 9596  
Email: scot@atersys.com  
High quality sequence stop: 323.  
Location/Qualifiers  
1..946  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="Athersys RAGE Library"  
/cell\_line="HT1080"  
/note="See 'Creation of Genome-wide Protein Expression Libraries using Random Activation of Gene Expression', Nature Biotechnology, in press. Note that even though the cell type indicated is HT1080, since a random activation method was used, these sequence tags are not necessarily expressed in HT1080 under normal circumstances."  
expressed in HT1080 under normal circumstances."  
BASE COUNT 225 a 221 c 329 g 169 t 2 others  
ORIGIN

QY

Db

A1581835

A1581835

6.9%; Score 111; DB 12; Length 946;  
Matches 111; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY

Db

A1581835

A1581835

946 bp mRNA linear EST 21-APR-2001  
RST37315 Athersys RAGE Library Homo sapiens cDNA, mRNA sequence.  
BG217603  
BG217603.1 GI:13743624  
EST.  
human.  
Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.  
1 (bases 1 to 946)  
Harrington, J.J., Sherf, B., Rundlett, S., Jackson, P.D., Perry, R.,  
Cain, S., Leventhal, C., Thornton, M., Ramchandran, R., Whittington, J.,  
Lerner, L., Costanzo, D., McElligott, K., Booser, J., May, R., Smith,  
E., Veloso, N., Kikva, A., Hess, J., Cottrien, K., Lo, K., Offenbacher,  
J., Danzig, J. and Ducar, M.  
Creation of genome-wide protein expression libraries using random  
activation of gene expression  
Nat. Biotechnol. 19 (5), 440-445 (2001)  
Contact: Scott J. Cain  
Athersys, Inc.  
3201 Carnegie Ave, Cleveland, OH 44115, USA  
Tel: 216 431 9900  
Fax: 216 361 9596  
Email: scot@atersys.com  
High quality sequence stop: 323.  
Location/Qualifiers  
1..946  
/organism="Homo sapiens"  
/db\_xref="taxon:9606"  
/clone\_lib="Athersys RAGE Library"  
/cell\_line="HT1080"  
/note="See 'Creation of Genome-wide Protein Expression Libraries using Random Activation of Gene Expression', Nature Biotechnology, in press. Note that even though the cell type indicated is HT1080, since a random activation method was used, these sequence tags are not necessarily expressed in HT1080 under normal circumstances."  
expressed in HT1080 under normal circumstances."  
BASE COUNT 225 a 221 c 329 g 169 t 2 others  
ORIGIN

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OY 452 ACCAGCGGCACAGATAGCAGACCCACCATCTCAACCTCGAGATAGTAC 502
Db 194 ACCAGCGGCACAGATAGCAGACCCACCATCTCAACCTCGAGATAGTAC 244

RESULT 6
LOCUS A0439960/c 530 bp DNA linear GSS 31-MAR-1999
DEFINITION HS-5059_B2_P05_17A RPCI-11 Human Male BAC library Homo sapiens
ACCESSION A0439960
VERSION A0439960
KEYWORDS genomic clone Plate=635 Col=10 Row=L, DNA sequence.
SOURCE GSS.
ORGANISM human.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 530)
AUTHORS Mahairas,G.G., Wallace,J.C., Smith,K., Sartzell,S., Holzman,T.,
Keller,A., Shaker,R., Fulton,J., Young,D., Zhao,S., Adams,M.D. and
Hood,L.
COMMENT Sequence-tagged connectors: A sequence approach to mapping and
scanning the human genome
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
99380589
CONTACT: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu
libraries are derived from the human BAC library RPCI-11. For BAC
library availability, please contact Pieter de Jong
(piet@dejong.med.buffalo.edu). Clones may be purchased from
BACPAC Resources (http://bacpac.med.buffalo.edu/ordering_bac.htm)
or from Research Genetics (info@resgen.com). BAC end Web Server:
http://www.hsc.washington.edu
Plate: 635 Row: L Column: 10
Seq primer: T7
Class: BAC ends
High quality sequence stop: 530.
FEATURES
source
location/Qualifiers
1..530
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="Plate=635 Col=10 Row=L"
/clone_lib="RPCI-11 Human Male BAC Library"
/sex="male"
/note="Vector: pBAC3.6; Site_1: EcoRI; Site_2: EcoRI;
Male blood DNA was isolated from one randomly chosen donor
and partially digested with a combination of EcoRI and
EcoRI Methylase. Size selected DNA was cloned into the
pBAC3.6 vector at EcoRI sites"
BASE COUNT 143 a 130 c 86 g 162 t 9 others
ORIGIN
Query Match 6.7%; Score 109; DB 17; Length 530;
Best Local Similarity 99.4%; Pred. No. 1; 9e-25;
Matches 159; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Y 1 ATCCATGCTAAAGTAACAACAGTCACTTATATTCGATTTATTTGCTATAGACA 60
Db 398 ATCCATGCTAAAGTAACAACAGTCACTTATATTCGATTTATTTGCTATAGACA 339
Y 61 GAGGTATGCCAGTAGCAGCACTGTGCTCAGAAAGAAATTCGACAGCCAGTCCGAG 120
Db 338 GAGGTATGCCAGTAGCAGCACTGTGCTCAGAAAGAAATTCGACAGCTTAGTCCGAG 279
Y 121 AGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 160
Db 278 AGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 239

```

```

RESULT 7
LOCUS B1764226 634 bp mRNA linear EST 25-SEP-2001
DEFINITION B1764226 630459079.1 NIH_MGC_116 Homo sapiens CDNA clone IMAGE:5186472.5.
ACCESSION B1764226
VERSION B1764226.1 GI:15755804
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 634)
AUTHORS NIH-MGC http://mgi.cni.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: cga@pds-femall.nih.gov
Tissue Procurement: Life Technologies, Inc.
CDNA Library Preparation: Life Technologies, Inc.
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: L1AM11465 Row: m Column: 01
High quality sequence stop: 634.
FEATURES
source
location/Qualifiers
1..634
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="IMAGE:5186472"
/clone_lib="NIH_MGC_116"
/lab_host="DH10B"
/note="Organ: pooled colon, kidney, stomach; Vector:
pCMV-SPORT6; Site_1: NotI; Site_2: EcoRV (destroyed); RNA
source anonymous pool of 3 colons, age 26 yo male, 4% yo
female, 71 yo male colon; 46 yo male kidney, and pool of 2
stomachs, 62 yo male and 70 yo female. Library is
oligo-dT primed and directionally cloned (brev site is
destroyed upon cloning). Average insert size 1.4 kb,
enriched for full-length clones and was constructed by C.
Gruber (Invitrogen). Research Genetics tracking code
023. Note: this is a NIH-MGC Library."
BASE COUNT 180 a 175 c 140 g 139 t
ORIGIN
Query Match 5.4%; Score 88; DB 13; Length 634;
Best Local Similarity 100.0%; Pred. No. 9; 8e-19;
Matches 88; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 351 CATTAAAGCCACTACAGACAGTCACTGAGAAATTAAGAAATCAGAAATAGTAC 410
Db 175 CATTAAAGCCACTACAGACAGTCACTGAGAAATTAAGAAATCAGAAATAGTAC 234
OY 411 AGCAGATCCACCCAGACCTTCACCCA 438
Db 235 AGCAGATCCACCCAGACCTTCACCCA 262

RESULT 8
LOCUS AM842215/c 327 bp mRNA linear EST 18-MAY-2000
DEFINITION RCO-CN0028-010200-012-g11 CN0028 Homo sapiens CDNA, mRNA sequence.
ACCESSION AM842215
VERSION AM842215.1 GI:7936198
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

```



REFERENCE 1 (bases 1 to 327)  
 AUTHORS Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Britones, M. R., Nagai, M. A., da Silva, M. Jr., Zago, M. A., Bordin, S., Costa, F. F., Goldman, G. H., Carvalho, A. F., Matsushima, A., Bala, G. S., Simpson, D. H., Brunstein, A., de Oliveira, P. S., Bucher, P., Jongeneel, C. V., O'Hare, M. J., Soares, F., Breniani, R. R., Reis, L. F., de Souza, S. J. and Simpson, A. J.  
 TITLE Shotgun sequencing of the human transcriptome with ORF expressed sequence tags  
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)  
 MEDLINE 20202663  
 COMMENT Contact: Simpson A.J.G., Laboratory of Cancer Genetics, Ludwig Institute for Cancer Research, Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil  
 Tel: +55-11-2704922  
 Fax: +55-11-2707001  
 Email: asimpson@ludwig.org.br  
 This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (<http://www.ludwig.org.br/scripts/gethtml2.pl?tl=6t2-RC0-CN0028-010>)  
 200-012-916t3-2000-02-016t4-1)  
 Seq primer: puc 18 forward  
 High quality sequence start: 39  
 High quality sequence stop: 327.  
 Location/Qualifiers  
 1..327  
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 /db\_xref="taxon:9606"  
 /clone\_lib="CN0028"  
 /dev\_stage="Adult"  
 /note="Organ: colon, normal; Vector: puc18; Site: 1: Sma1; Site: 2: Sma1; A mini-library was made by cloning products derived from ORSRES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) profiles into the puc 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions."  
 BASE COUNT 77 a 104 c 48 g 98 t  
 ORIGIN  
 Query Match 2.8%; Score 45; DB 10; Length 327;  
 Best Local Similarity 100.0%; Pred. No. 0.00011;  
 Matches 45; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 2Y 116 GCCAGAGCTCTATGCTATGCCATTGACCAATCTCTAAACTAAAGG 160  
 ||||||||||||||||||||||||||||||||||||||||||||||||  
 1b 111 GCCAGAGAGCTATGATGGATTGACCAATCTCTAAACTAAAGG 267  
 RESULT 9 664 bp mRNA linear EST 26-OCT-2001  
 .H625007 DB625007 RIKEN full-length enriched, adult male colon Mus musculus  
 DEFINITION  
 CDNA clone 9030614N15 5', mRNA sequence.  
 CHROMOSOMES H625007  
 KEYWORDS H625007.1 GI:1646365  
 EST.  
 SOURCE house mouse.  
 ORGANISM Mus musculus  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 1 (bases 1 to 664)  
 Atakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hiramoto, K., Ito, F., Ishii, Y., Ito, M., Kawai, J., Konno, H., Kouda, M., Koyama, S., Matsuyama, T., Miyazaki, A., Nomura, K., Ohno, M., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., Tatematsu, M., Tagawa, A., Takahashi, F., Takeda, Y., Tanaka, T., Toya, T., Muramatsu, M. and Hayashizaki, Y.  
 RIKEN Mouse ESTs (Atakawa, T., et al. 2001)  
 JOURNAL Unpublished (2001)

## COMMENT

contact: Yoshihide Hayashizaki  
 Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute  
 The Institute of Physical and Chemical Research (RIKEN)  
 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
 Tel: 81-45-503-9222  
 Fax: 81-45-503-9226  
 Email: genome-res@sc.riken.go.jp,  
 URL: <http://genome-gsc.riken.go.jp/>  
 Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
 Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)  
 Wagi, K., Fujisawa, S., Inoue, K., Togawa, Y., Iwawa, M., Ohara, E., Watanabe, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kita, A. and Hayashizaki, Y.  
 RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multichannel sequencer. Genome Res. 10 (11), 1757-1771 (2000)  
 Konno, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara, Y. and Hayashizaki, Y.  
 Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)  
 Kondo, S., Shinagawa, A., Saito, T., Kiyosawa, H., Yamana, I., Atzawa, K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K. and Hayashizaki, Y.  
 Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences. Mamm. Genome. 12, 673-677 (2001)  
 Please visit our web site (<http://genome-gsc.riken.go.jp/>) for further details.  
 e mouse tissues.

## FEATURES

## source

## Location/Qualifiers

1..664  
 /organism="Mus musculus"  
 /strain="C57BL/6J"  
 /db\_xref="taxon:10090"  
 /clone\_lib="9030614N15"  
 /clone\_lib="RIKEN full-length enriched, adult male colon"  
 /sex="male"  
 /tissue-type="colon"  
 /dev\_stage="adult"  
 /lab\_host="DH10B"  
 /note="Site: 1: SalI; Site: 2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGAGATCCAGAGCTCTTTTCTTTTCTTTT 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot - 10.0 and subtraction to Rot - 185.0. Second strand cDNA was prepared with the primer adapter of sequence [5' GAGAGAGATCTCCAGTAAATTAATCCCCCCCCC 3']. cDNA was cloned into the XhoI and BamHI sites. Vector: a modified bluescript KS(+) after bulk excision from Lambda FDC T. Cloning sites, 5' end: SalI; 3' end: BamHI.  
 BASE COUNT 161 a 183 c 165 g 155 t  
 ORIGIN

## Query Match

2.0%; Score 32; DB 10; Length 664;  
 Best Local Similarity 100.0%; Pred. No. 1.1;

Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 716 CACCCAGGAGGAGGCTGCTGCTGCGAG 747  
 ||||||||||||||||||||||||||||||||||||||||||||||||

Db 524 CACCCAGGAGGAGGCTGCTGCTGCGAG 555

[illegible]

TITLE	Direct Submission		
JOURNAL	Submitted (18-AUG-2000) Yoshihide Hayashizaki. The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (1687) RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama Kanagawa 230-0045, Japan (E-mail: genome-res@qsc.riken.go.jp, URL: http://genome.qsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)		
COMMENT	Please visit our web site (http://genome.qsc.riken.go.jp/) for further details.		
	CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in RIKEN Genomic Sciences Center and Genome Science Laboratory in RIKEN Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. First strand cDNA was primed with a primer [5'-GAGAGAAACAGTACAGACGCTCTTTTCTTTTCTTTT-3']. cDNA was prepared by using trihalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to R0 = 10.0 and Subtraction to R0 = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5'-GAGAGAGATCTCCAGTATTATTAATCCCGCCGCCGCC 3']. cDNA was cleaved with BamHI and XhoI. cDNA of size comprised between 3 and 7 kb was selected before cloning. Vector: a modified phagescript KSI(+) after bulk excision from lambda PLC 1. Cloning sites, 5' end: SalI; 3' end: BamHI. Host: DH10B.		
FEATURES	Location/Qualifiers		
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	/tissue_type="liver"		
	/clone_id="RIKEN full-length enriched mouse CDNA library"		
	/dev_stage="14 days embryo"		
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	polyA.signal		
	polyA.site		
BASE COUNT	954 a	726 c	673 g 914 t
ORIGIN			
Query Match	2.06; Score 33; DB 11; Length 3267.		

Best Local Similarity 100.0%; Pred. No. 0.4;  
Matches 32; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 716 CACCCAGTGAAGGGGTCTGAGCTCTGGAG 747  
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Db 784 CACCCAGTGAAGGGGTCTGAGCTCTGGAG 815

RESULT 11  
A2454451

LOCUS 573 bp DNA linear GSS 04-OCT-2000  
DEFINITION IM0256J19F Mouse 10kb plasmid UUGC1M library Mus musculus genomic

ACCESSION A2454451  
VERSION A2454451.1 GI:10612576

KEYWORDS GSS.  
SOURCE house mouse.  
ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 573)  
AUTHORS Dunn, P., Aoyagi, A., Barber, M., Beacorn, T., Duval, B., Hamil, C.,  
Islam, H., Longacre, S., Mahmoud, M., Meenen, E., Pedersen, T., Reilly,  
M., Rose, M., Rose, R., Stokes, R., Tingey, A., von Niederhausen, A.  
and Wright, D., Weiss, R.  
Mouse whole genome scaffolding with paired end reads from 10kb  
plasmid inserts  
Unpublished (2000)  
Contact: Robert B. Weiss  
University of Utah Genome Center  
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT  
84112, USA  
Tel: 801 965 5606  
Fax: 801 585 7177  
Email: ddunn@genetics.utah.edu  
Insert Length: 10000 Std Error: 0.00  
Plate: 0256 row: J column: 19  
Seq primer: CCTCTAAACGACGGCCACT  
Class: plasmid ends  
High quality sequence stop: 573.

TITLE  
COMMENT  
JOURNAL  
COMMENT

#### FEATURES

source

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/note="Vector: pMD42ny; Purified genomic DNA from M.  
musculus C57BL/6J (male) was obtained from the Jackson  
Laboratory Mouse DNA Resource  
(http://www.jax.org/resources/documents/dnares/). The DNA  
was hydrodynamically sheared by repeated passage through a  
0.005 inch orifice at constant velocity. The sheared DNA  
was blunt end-repaired with T4 DNA polymerase and T4  
polynucleotide kinase. Adaptor oligonucleotides were  
ligated to the blunt ends in high molar excess. The  
adaptor DNA was purified and size-selected for a 9.5 to  
10.5 Kb range using preparative agarose gel  
electrophoresis. Vector DNA was prepared from a derivative  
of pMD42 (g1473211419b1Af129072.1), a copy-number  
inducible derivative of plasmid R1. The vector was ligated  
with adaptors complementary to the insert adaptors and  
purified. The sheared, adaptor mouse DNA was annealed to  
adaptor vector DNA, and transformed into  
chemically-competent E. coli XL10-Gold (Stratagene) cells  
and selected for ampicillin resistance."

BASE COUNT  
152 a 161 c 125 g 135 t

Best Local Similarity 100.0%; Pred. No. 48;  
Matches 27; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 511 GTCCAGCTCAGCTCTGTTGGAGGAGC 537

RESULT 12  
BB656245

LOCUS 630 bp mRNA linear EST 26-OCT-2001  
DEFINITION BB656245 RIKEN full-length enriched, 12 days embryo spinal ganglion

ACCESSION BB656245  
VERSION BB656245.1 GI:16490073

KEYWORDS EST.  
SOURCE house mouse.  
ORGANISM Mus musculus

REFERENCE 1 (bases 1 to 630)  
AUTHORS Arakawa, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A.,  
Hiramoto, K., Horii, F., Ishii, Y., Ito, M., Kawai, J., Kono, H., Kouda,  
M., Koya, S., Matsuyama, T., Miyazaki, A., Nomura, K., Ohno, M.,  
Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sano, H., Sasaki,  
D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H.,  
Tagami, M., Tagawa, A., Takahashi, F., Takeda, Y., Tanaka, T., Toya, T.,  
Muramatsu, M. and Hayashizaki, Y.  
RIKEN Mouse ESTs (Arakawa, T., et al. 2001)  
Unpublished (2001)  
Contact: Yoshinobu Hayashizaki  
Laboratory for Genome Exploration Research Group, RIKEN Genomic  
Sciences Center (GSC), Yokohama Institute  
The Institute of Physical and Chemical Research (RIKEN)  
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan  
Tel: 81-45-503-9222  
Fax: 81-45-503-9216  
Email: genome-res@gscc.riken.go.jp,  
URL: http://genome-gsc.riken.go.jp/  
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh,  
M., Kono, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.  
Normalization and subtraction of cap-trapper-selected cDNAs to  
prepare full-length cDNA libraries for rapid discovery of new  
genes. Genome Res. 10 (10), 1617-1630 (2000)  
Wagii, K., Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E.,  
Matsuhira, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsunaga,  
S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, T., Kira, A. and  
Hayashizaki, Y.  
RIKEN integrated sequence analysis (RISA) system--384-format  
sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10  
(11), 1757-1771 (2000)  
Kono, H., Fukunishi, Y., Shibata, K., Itoh, M., Carninci, P., Sugahara,  
Y. and Hayashizaki, Y.  
Computer-based methods for the mouse full-length cDNA  
encyclopedia: real-time sequence clustering for construction of a  
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)  
Kondo, S., Shingawa, A., Saito, T., Kiyosawa, H., Yamanaka, I., Aizawa,  
K., Fukuda, S., Hara, A., Itoh, M., Kawai, J., Shibata, K. and  
Hayashizaki, Y.  
Computational Analysis of Full-length Mouse cDNAs Compared with  
Human Genome Sequences. Mamm. Genome. 12, 673-677 (2001)  
Please visit our web site (http://genome.gsc.riken.go.jp) for  
further details.  
e mouse tissues.

#### FEATURES

source

Location/Qualifiers  
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1.7%; Score 27; DB 17; Length 573;



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(cell_line-RCB-0464 Meib-A), (cell_line-RCB-0545 OHRA),
(cell_line-RCB-0559 K-1. F1), (cell_line-RCB-1283 B16
melanoma), (cell_type-B cells, cell_line-CRL-1702 WEHI 231
), (cell_type-B lymphoid cells, cell_line-CRL-2065 MTC-1),
(tissue_type-bladder, cell_line-CRL-2070 NE),
(tissue_type-bone marrow, cell_type-stroma cell),
(tissue_type-colon, cell_line-CRL-2028 SR-4987),
(tissue_type-pancreas, cell_line-CRL-142 RAG),
(tissue_type-spleen, cell_line-CRL-1734 SCA-9),
(tissue_type-testis, cell_line-CRL-1669 BCL1 clone 13.20-3b3
), (strain-C3H, tissue_type-brain, cell_line-CRL-1443
HC3H1)"

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ORIGIN

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Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 410 CAGCAGATCCACCCAGACCTTTC 433
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Db 12 CAGCAGATCCACCCAGACCTTTC 35

RESULT 15
LOCUS      H3147F12-5 N1A Mouse 15K cDNA Clone Set Mus musculus cDNA clone
ACCESSION  H3147F12.5, mRNA sequence.
VERSION     H3147F12.5
KEYWORDS    EST.
SOURCE      Mus musculus.
ORGANISM    Mus musculus.
REFERENCE   1 (bases 1 to 597)
AUTHORS     Kargul, G.J., Dudekula, D.B., Qian, Y., Lim, M.K., Jaradat, S.A., Tanaka
            T.S., Carter, M.G. and Ko, M.S.H.
TITLE       Verification and initial annotation of N1A mouse 15K cDNA clone set
JOURNAL     Unpublished (2001)
COMMENT     Other ESTs: H3147F12-3
            Contact: George J. Kargul
            Laboratory of Genetics
            National Institute on Aging/National Institutes of Health
            333 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA
            Email: cdna@igsun.grc.nia.nih.gov
            This clone set has been freely distributed to the community. Please
            visit http://igsun.grc.nia.nih.gov/cDNA/15K.html for details.
            Site: H3147 row: F column: 12
            Seq primer: -21M13 Reverse
            High quality sequence stop: 597
            POLYA-No.
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/dev_stage="Clones arrayed from a variety of cDNA libraries"
/libraries="Clones arrayed from a variety of cDNA
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/lab_host="DH10B"
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embryo cDNA libraries (including preimplantation stage
embryos from unfertilized egg to blastocyst, embryonic
part of E7.5 embryos, extraembryonic part of E7.5 embryos
, and E12.5 female mesonephros/gonad) and one newborn
ovary cDNA library. Average insert size 1.5 kb. All
source libraries are cloned unidirectionally with Oligo(dT
) not primers. References include: (1) Genome-wide
expression profiling of mid-gestation placenta and embryo
using a 15,000 mouse developmental cDNA microarray, 2000,
Proc. Natl. Acad. Sci. U.S.A. 97: 9127-9132; (2)
Large-scale cDNA analysis reveals phased gene expression
patterns during preimplantation mouse development, 2000,
Development, 127: 1737-1749; (3) Genome-wide mapping of
unselected transcripts from extraembryonic tissue of
7.5-day mouse embryos reveals enrichment in the t-complex
and under representation on the X chromosome, 1998, Hum
Mol Genet 7: 1967-1978."

BASE COUNT      169 a      151 c      138 g      139 t
ORIGIN

Query Match      1.5%: Score 24; DB 12; Length 597;
Best Local Similarity 100.0%; Pred. No. 4.4e+02;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 410 CAGCAGATCCACCCAGACCTTTC 433
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Db 449 CAGCAGATCCACCCAGACCTTTC 472

Search completed: November 22, 2002, 04:29:06
Job time : 2198 secs

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OM nucleic - nucleic search, using sw model

Run on: November 22, 2002, 02:38:36 ; Search time 866 Seconds  
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706.730 Million cell updates/sec

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Perfect score: 1616
Sequence: 1 atccatgctaaagctaacac.....aatacaaaaaaaaaaaaaa 1616
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Gapop 60.0 , Gapext 60.0

Word size :

total number of hits satisfying chosen parameters: 671156

Maximum DB seq length: 200000000000

post-processing: listing first 45 summaries

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pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed and is derived by analysis of the total score distribution.

## SUMMARIES

Result	Query No.	Score	Match	Length (B)	ID	Description
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C	4	558	34.5	621	10	US-09-729-454.5
C	5	488	30.2	841	9	US-09-981-353.145
C	6	409	25.3	545	10	US-09-729-454.6
C	7	375	23.2	394	10	US-09-729-454.9
C	8	240	14.9	240	10	US-09-729-454.4
C	9	213	13.2	236	10	US-09-729-454.7
C	10	198	12.3	554	9	US-10-046-935.181
C	11	93	5.8	680	9	US-10-046-935.188
C	12	88	5.6	561	10	US-09-729-454.11
C	13	88	5.4	1545	10	US-09-729-454.31
C	14	88	5.4	2248	10	US-09-729-454.10
C	15	73	4.5	414	10	US-09-729-454.8
C	16	47	2.9	518	10	US-09-729-454.12
C	17	34	2.1	244	10	US-09-729-454.18
C	18	34	2.1	270	10	US-09-729-454.19
C	19	34	2.1	291	10	US-09-729-454.17

20	32	2.0	206	10	US-09-729-454-16	Sequence 16, Appl
21	32	2.0	257	10	US-09-729-454-22	Sequence 22, Appl
22	25	1.5	288	10	US-09-728-454-20	Sequence 20, Appl
23	24	1.5	275	10	US-09-729-454-21	Sequence 21, Appl
24	1.5	394	10	US-09-729-454-9	Sequence 9, Appl	
25	22	1.4	91	10	US-09-878-574-53	Sequence 531, Appl
26	22	1.4	144	10	US-09-729-454-27	Sequence 27, Appl
27	22	1.4	250	10	US-09-729-454-24	Sequence 24, Appl
28	22	1.4	357	10	US-09-966-352-839	Sequence 839, Appl
29	22	1.4	396	10	US-09-882-394-40	Sequence 40, Appl
30	22	1.4	4158	10	US-09-934-015-34	Sequence 34, Appl
31	21	1.3	337	10	US-09-920-300A-507	Sequence 507, Appl
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33	21	1.3	365	10	US-09-788-590-2675	Sequence 507, Appl
34	21	1.3	380	9	US-10-079-623-188	Sequence 188, Appl
35	21	1.3	381	9	US-10-079-623-36	Sequence 36, Appl
36	21	1.3	462	10	US-09-729-454-13	Sequence 13, Appl
37	21	1.3	531	10	US-09-729-454-14	Sequence 14, Appl
38	21	1.3	802	10	US-09-833-811-1895	Sequence 1895, Appl
39	21	1.3	256	10	US-09-965-913-3	Sequence 3, Appl
40	20	1.2	262	10	US-09-729-454-28	Sequence 28, Appl
41	20	1.2	276	10	US-09-729-454-23	Sequence 23, Appl
42	20	1.2	625	10	US-09-770-149-750	Sequence 750, Appl
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44	20	1.2	1448	10	US-09-764-853-153	Sequence 153, Appl
45	20	1.2	1967	10	US-09-887-586A-23	Sequence 23, Appl

## ALIGNMENTS

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1 RESULT 1
2 US-09-729-454-3
3 ? Sequence 3, Application US/09729454
4 ? Patent No. US20020137038A1
5 ? GENERAL INFORMATION:
6 ? APPLICANT: Lasek, Amy W.
7 ? APPLICANT: Krasnow, Randi E.
8 ? APPLICANT: Baughn, Mariah R.
9 ? TITLE OF INVENTION: INTESTINAL PROTEINS
10 ? FILE REFERENCE: PC-0028 CIP
11 ? CURRENT APPLICATION NUMBER: US/09/729,454
12 ? CURRENT FILING DATE: 2000-12-04
13 ? NUMBER OF SEQ ID NOS: 32
14 ? SOFTWARE: PERL Program
15 ? SEQ ID NO 3
16 ? LENGTH: 1616
17 ? TYPE: DNA
18 ? ORGANISM: Homo sapiens
19 ? FEATURE:
20 ? NAME/KEY: misc_feature
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Db 901 GAGGCTCAACACATGCCCTGTGCTGACACACATGTAATCTTAAGAACAAAGAGT 960
QY 961 TTCTTATCTTAGCAACCAAGAAAGAGGCTTTGAAAGGTCAATGGGTGTAGAGAT 1020
Db 961 TTCTTATCTTAGCAACCAAGAAAGAGGCTTTGAAAGGTCAATGGGTGTAGAGAT 1020
QY 1021 TATGAAAAATTCATATCAATAGTGTCTCCAAATGCACACACATGAAAGCATGAGAT 1080
Db 1021 TATGAAAAATTCATATCAATAGTGTCTCCAAATGCACACACATGAAAGCATGAGAT 1080
QY 1081 GCATGAATCTGGAAAAATTCACAAACACAGCTGCTGGATTGGATGAGAACATCAACAT 1140
Db 1081 GCATGAATCTGGAAAAATTCACAAACACAGCTGCTGGATTGGATGAGAACATCAACAT 1140
QY 1141 CCAGTGGCAAAAAATTTGTTATCCCTTGATAGAGATCAATGACATATTCATCAAGAGAT 1200
Db 1141 CCAGTGGCAAAAAATTTGTTATCCCTTGATAGAGATCAATGACATATTCATCAAGAGAT 1200
QY 1201 GGAGTACCTGACCCGGGGCCATGACAGAACTGGAGAGAAAAAATACGTCTATTGTTAT 1260
Db 1201 GGAGTACCTGACCCGGGGCCATGACAGAACTGGAGAGAAAAAATACGTCTATTGTTAT 1260
QY 1261 TTCCCTGGGCGACAGATTTTCAGACCTTTCCCATGATGTTTATTCGGAAGGGCCCTCAA 1320
Db 1261 TTCCCTGGGCGACAGATTTTCAGACCTTTCCCATGATGTTTATTCGGAAGGGCCCTCAA 1320

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QY 1321 TGTCCAAAGGCATTCAGCATCTTCTGTGAGAGCCAGACATATGTTATCATCA 1380
Db 1321 TGTCCAAAGGCATTCAGCATCTTCTGTGAGAGCCAGACATATGTTATCATCA 1380
QY 1381 AACAGAAACATCCAGGAGATGTACAAATCTCCAGAAACATTTAGTACTTTCATG 1440
Db 1381 AACAGAAACATCCAGGAGATGTACAAATCTCCAGAAACATTTAGTACTTTCATG 1440
QY 1441 CATTCATATCTCATTCATTAAGACATTTTCAGAGATCTGAGTATCATTAATCC 1500
Db 1441 CATTCATATCTCATTCATTAAGACATTTTCAGAGATCTGAGTATCATTAATCC 1500
QY 1501 CTGGATATTAACATTCATATGAGCAAAATTAATCTACCCACCTCAACATTAATG 1560
Db 1501 CTGGATATTAACATTCATATGAGCAAAATTAATCTACCCACCTCAACATTAATG 1560
QY 1561 AATTCAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1616
Db 1561 AATTCAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 1616

```

## RESULT 2

```

US-09-729-454-30
: Sequence 30: Application US/09/29454
: Patient No. US20020137038A1
: GENERAL INFORMATION:
: APPLICANT: Lasek, Amy W.
: APPLICANT: Krasnow, Mariah R.
: TITLE OF INVENTION: INTESTINAL PROTEINS
: FILE REFERENCE: PC-0028 CIP
: CURRENT APPLICATION NUMBER: US/09/729,454
: NUMBER OF SEQ ID NOS: 32
: SOFTWARE: PERL Program
: SEQ ID NO 30
: LENGTH: 1005
: TYPE: DNA
: ORGANISM: Homo sapiens
: FEATURE:
: NAME/KEY: misc.feature
: OTHER INFORMATION: Inctybe ID No. US20020137038A1 GNN q9965027_000007_006
US-09-729-454-30

```

Query Match 62.2%; Score 1005; Dh 10; Length 1005;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1005; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

```

QY 593 ATGTCTTCCCGAGCGCTGATGGCAGGTGCTTCAAGAAAGTACTGACTTCAACAAAG 652
Db 1 ATGTCTTCCCGAGCGCTGATGGCAGGTGCTTCAAGAAAGTACTGACTTCAACAAAG 652
QY 653 ACCTACCTGCTCAGCTTCACTCTGTTCTGGAGAGGCGCAGGTCTCTGCTGCTCGGCG 712
Db 61 ACCTACCTGCTCAGCTTCACTCTGTTCTGGAGAGGCGCAGGTCTCTGCTGCTCGGCG 712
QY 713 ATCCACCCGAGTGAAGGGGTGTGAGCTCTGTGAGAGTGCAGAGAACCAAGCCTATCCAG 772
Db 121 ATCCACCCGAGTGAAGGGGTGTGAGCTCTGTGAGAGTGCAGAGAACCAAGCCTATCCAG 772
QY 773 GTGATCTTCACTGCGCAGTTTGTCAATGGCACTTCCCAAGTGCACCTGATGATGGCTG 832
Db 181 GTGATCTTCACTGCGCAGTTTGTCAATGGCACTTCCCAAGTGCACCTGATGATGGCTG 832
QY 833 ATCTTAACCAAAATGCTGAATTTGTGCACTACCTGCTGCAACACAGACCAAGCCATTC 892
Db 241 ATCTTAACCAAAATGCTGAATTTGTGCACTACCTGCTGCAACACAGACCAAGCCATTC 892
QY 893 TACTGTGTGAGGCTTCAACACATGCCCTGTGCTCAGTCACTACATGATATTCAGAAC 952
Db 301 TACTGTGTGAGGCTTCAACACATGCCCTGTGCTCAGTCACTACATGATATTCAGAAC 952
QY 953 AAGAAAGTTCTTATCTTAGCAAAACAAGAAAGACCTCTTTGAAAGGTCAATATGTAGAT 1012

```

Db 161 AAGAGGTTTCTTATCTTAGCAAAAGAAAGAGCTCTTTGAAAGTCAAAATGTGGT 420  
Qy 1013 GTAGAGATTATGAAAAATTCATACATTAAGTGTCTCCAAATGCAACACTGAAAGCA 1072  
Db 421 GTAGAGATTATGAAAAATTCATACATTAAGTGTCTCCAAATGCAACACTGAAAGCA 480  
Qy 1073 GTGAGATCTCATGAAATCTGGAAAAATTCAGAACAGCTTGCTGTGATTTGGATAGAAC 1132  
Db 481 GTGAGATCTCATGAAATCTGGAAAAATTCAGAACAGCTTGCTGTGATTTGGATAGAAC 540  
Qy 1133 ATCAACATCCAGTGGCAAAAAATATGTATCCCTGATAGATCATATGACCTATTCAGTC 1192  
Db 541 ATCAACATCCAGTGGCAAAAAATATGTATCCCTGATAGATCATATGACCTATTCAGTC 600  
Qy 1193 AAGAGATGAGTACTCTACCCGGGCCATTGACAGAACTGGAGAGAAAAAAATACTGTC 1252  
Db 601 AAGAGATGAGTACTCTACCCGGGCCATTGACAGAACTGGAGAGAAAAAAATACTGTC 660  
Qy 1253 ATTGATATTCCTGGGAGCAGCATTTCCAGACCTTTCCCATGATGTTTATCCGAAG 1312  
Db 661 ATTGATATTCCTGGGAGCAGCATTTCCAGACCTTTCCCATGATGTTTATCCGAAG 720  
Qy 1313 GCGCTCAATGTCCAAAGGCCATTCAGCATCTCTCTGAGAAAGCCCAACATATGTT 1372  
Db 721 GCGCTCAATGTCCAAAGGCCATTCAGCATCTCTCTGAGAAAGCCCAACATATGTT 780  
Qy 1373 ATCATGAAAAAGAAACATCAGGAGATGTACAAAGTGCAGAAAGATTAAGTACTTT 1432  
Db 781 ATCATGAAAAAGAAACATCAGGAGATGTACAAAGTGCAGAAAGATTAAGTACTTT 840  
Qy 1433 CATGCTATCATCAATATCTCATATTAAGGACATTTTCCAGATCTCAGTGTGATATC 1492  
Db 841 CATGCTATCATCAATATCTCATATTAAGGACATTTTCCAGATCTCAGTGTGATATC 900  
Qy 1493 ATTGATGCTGGGATATACAAATTCATATGCAATATTAATGACCCAGCTCAACAT 1552  
Db 901 ATTGATGCTGGGATATACAAATTCATATGCAATATTAATGACCCAGCTCAACAT 960  
Qy 1553 GTAGTGGAAATTCAGATTAATATTAATTAACATTAATTTGTTAA 1597  
Db 961 GTAGTGGAAATTCAGATTAATATTAATTAACATTAATTTGTTAA 1005

RESULT 3  
US-09-981-353-144  
Sequence 144, Application US/09981353  
Patent No. US20020160382A1  
GENERAL INFORMATION:  
APPLICANT: Lasek, Amy W.  
TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
FILE REFERENCE: PA-0038 US  
CURRENT APPLICATION NUMBER: US/09/981.353  
CURRENT FILING DATE: 2001-10-11  
NUMBER OF SEQ ID NOS: 194  
SOFTWARE: PERL Program  
SEQ ID NO 144  
LENGTH: 1212  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. US20020160382A1 1397029.1  
US-09-981-353-144

Query Match 34.7%, Score 560, DB 9, Length 1212:  
Best Local Similarity 99.7%, Pred. No. 2, 2e-232;  
Matches 730; Conservative 0; Mismatches 1; Indels 1; Gaps 1;

Qy 1 ATCCATGCTAAAGCTAAACAACTGCACACTATATCTGCAATTAATTTGGATAGACA 60  
Db 1 ATCCATGCTAAAGCTAAACAACTGCACACTATATCTGCAATTAATTTGGATAGACA 60

Qy 61 GAGGTATGCCAGTACACACTGCTGGCTTCAGAAAGAAATTCCTCMACCTAGCTGCCAG 120  
Db 61 GAGGTATGCCAGTACACACTGCTGGCTTCAGAAAGAAATTCCTCMACCTAGCTGCCAG 120  
Qy 121 AGAGTCTATGTAAGGATTCAGAACTCTGTAACCTAAAGGATCTTAATCAATGAAAAATAG 180  
Db 121 AGAGTCTATGTAAGGATTCAGAACTCTGTAACCTAAAGGATCTTAATCAATGAAAAATAG 180  
Qy 181 TATGATTAATTAAGTACT-ATTGGACCTGTTGTTATTAATTAAGTCTCTGATCATTT 239  
Db 181 TATGATTAATTAAGTACT-ATTGGACCTGTTGTTATTAATTAAGTCTCTGATCATTT 240  
Qy 240 TTACAGTTTCCAGACCTCCCAAGAGTTGTTGCTCTTAACTTATTCATCTCCCTCC 299  
Db 241 TTACAGTTTCCAGACCTCCCAAGAGTTGTTGCTCTTAACTTATTCATCTCCCTCC 300  
Qy 300 ATTACTGMAACTCCACAAAGTCTTATTCCTTAAACACCACTGATATCATTTAAG 359  
Db 301 ATTACTGMAACTCCACAAAGTCTTATTCCTTAAACACCACTGATATCATTTAAG 360  
Qy 360 CACTACAGAGACTGAACTCAGATTAAGAAATCATAGAAATCAGATGACAGATCC 419  
Db 361 CACTACAGAGACTGAACTCAGATTAAGAAATCATAGAAATCAGATGACAGATCC 420  
Qy 420 CACCAGACCTTTACCCACGTAACACACACACGACACACATAGACACACCA 479  
Db 421 CACCAGACCTTTACCCACGTAACACACACACGACACACATAGACACACCA 480  
Qy 480 TCCTCAACCTCTCGAGATACGTAAGTACGAGGAGAGACAGCTGCAATCTGCTGAGAGTA 539  
Db 481 TCCTCAACCTCTCGAGATACGTAAGTACGAGGAGAGACAGCTGCAATCTGCTGAGAGTA 540  
Qy 540 GGGACACTTGGGAGCGAGAAACAAATATGCGGGGATTTCTGAGGGCCAGATGCTT 599  
Db 541 GGGACACTTGGGAGCGAGAAACAAATATGCGGGGATTTCTGAGGGCCAGATGCTT 600  
Qy 600 CCCAGCCTGATGACAGTGCCTTCAGAAAGTGTACTGATCAACAGAGCCAGCTACC 659  
Db 601 CCCAGCCTGATGACAGTGCCTTCAGAAAGTGTACTGATCAACAGAGCCAGCTACC 660  
Qy 660 TGGTCAGCTTACCTGCTTCTGGAGGGCCAGGTCTCTGTCTGTGCTGCTATCCACC 719  
Db 661 TGGTCAGCTTACCTGCTTCTGGAGGGCCAGGTCTCTGTCTGTGCTGCTATCCACC 720  
Qy 720 CCAAGTGAAGGG 731  
Db 721 CCAAGTGAAGGG 732

RESULT 4  
US-09-729-454-5/c  
Sequence 5, Application US/09729454  
Patent No. US20020137038A1  
GENERAL INFORMATION:  
APPLICANT: Lasek, Amy W.  
TITLE OF INVENTION: Kirsnow, Randi E.  
FILE REFERENCE: PC-0028 CIP  
CURRENT APPLICATION NUMBER: US/09/729.454  
CURRENT FILING DATE: 2000-12-04  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: PERL Program  
SEQ ID NO 5  
LENGTH: 621  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. US20020137038A1 71851705V1  
US-09-729-454-5



Query Match 34.5% Score 558; DB 10; Length 621;  
Best Local Similarity 99.8%; Pred. No. 1,7e-211;  
Matches 608; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 210 TGTGTTATATAGCTCTGATGATATTTTACGTTTCCAGACATCCAAAGGTTT 269  
DB 621 TGTGTTATATAGCTCTGATGATATTTTACGTTTCCAGACATCCAAAGGTTT 562  
QY 270 GGTCTGCTAACTTATGATCTCCCTCATTTACTGGACAACTCCAAAGTCTTAT 339  
DB 561 GGTCTGCTAACTTATGATCTCCCTCATTTACTGGACAACTCCAAAGTCTTAT 502  
QY 330 TCCCTAAACACGCTGATATCATTTAAAGCCATAGAGACTGAACTCAATAAAG 389  
DB 501 TCCCTAAACACGCTGATATCATTTAAAGCCATAGAGACTGAACTCAATAAAG 442  
QY 390 AAATCATAGAAACTAGATGAGAGATCCAGCCAGACCTTTGACCAAGTAAACCA 449  
DB 441 AAATCATAGAAACTAGATGAGAGATCCAGCCAGACCTTTGACCAAGTAAACCA 382  
QY 450 CCACGAGCGCCACATAGACAGCCAGCATCTCAACCTTCGAGATAGTACTGACAGG 509  
DB 381 CCACGAGCGCCACATAGACAGCCAGCATCTCAACCTTCGAGATAGTACTGACAGG 322  
QY 510 GAGACAGCTGACATCTCTGAGAGTGAGGAGCCACTTTGGAGCGAGAAAGCAATAG 569  
DB 321 GAGAGAGCTGACATCTCTGAGAGTGAGGAGCCACTTTGGAGCGAGAAAGCAATAG 262  
QY 570 GCGGGGATTTCTGAGGGCCAGAGATGCTTCCCGCAGCCTGATGGAGGTGCTGAGAA 629  
DB 261 GCGGGGATTTCTGAGGGCCAGAGATGCTTCCCGCAGCCTGATGGAGGTGCTGAGAA 202  
QY 630 AGTGACTGACTTGAAACACGCGACAGTACTGCTGAGTCTGCTGAGAGGACC 669  
DB 201 AGTGACTGACTTGAAACACGCGACAGTACTGCTGAGTCTGCTGAGAGGACC 142  
QY 690 AGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 749  
DB 141 AGTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 82  
QY 750 CAAGCAACCAAGCTATGACAGGCTGATCTGAGTGGCCATTTGTCATGGCCTTCCC 809  
DB 81 CAAGCAACCAAGCTATGACAGGCTGATCTGAGTGGCCATTTGTCATGGCCTTCCC 22  
QY 810 AAGTCACT 818  
DB 21 AAGTCACT 13

RESULT 5  
US-09-981-353-145  
Sequence 145, Application US/09981353  
Patent No. US20020160382A1  
GENERAL INFORMATION:  
APPLICANT: Lasek, Amy W.  
TITLE OF INVENTION: GENES EXPRESSED IN COLON CANCER  
FILE REFERENCE: PA-0038 US  
CURRENT APPLICATION NUMBER: US/09/981,353  
CURRENT FILING DATE: 2001-10-11  
NUMBER OF SEQ ID NOS: 194  
SOFTWARE: PERL Program  
SEQ ID NO 145  
LENGTH: 841  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. US20020160382A1 403560.1  
US-09-981-353-145

Query Match 30.2%; Score 488; DB 9; Length 841;  
Best Local Similarity 99.8%; Pred. No. 2.6e-201;

Matches 538; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1057 CAACACACATGAGTACAGTGCATGCTGATCAATCTGCAAAATTCGACATACGACGTCT 1124  
DB 303 CAACACACATGAGTACAGTGCATGCTGATCAATCTGCAAAATTCGACACACGACGT 1124  
QY 1117 GGATTTGGATAGGAACATCAACATCGAGTGGCAAAAATTTGTTATGCTTATATATAT 1174  
DB 363 GGATTTGGATAGGAACATCAACATCGAGTGGCAAAAATTTGTTATGCTTATATATAT 1174  
QY 1177 AATGACCTTTAGTCAAAAGAGATGAGTACCTGACCGGGCCATTTGATAGAGATGAGAG 1234  
DB 423 AATGACCTTTAGTCAAAAGAGATGAGTACCTGACCGGGCCATTTGATAGAGATGAGAG 462  
QY 1237 AGAAAAAATAGTGTGATTTGTTATTTCCCTGGCCAGCATTTTCAACCCCTTCCCATTTGA 1236  
DB 483 AGAAAAAATAGTGTGATTTGTTATTTCCCTGGCCAGCATTTTCAACCCCTTCCCATTTGA 542  
QY 1297 TGTGTTATATGCAAGGCGCTGATGATGAGAAACCTATTCAGTATCTCTGATGAA 1474  
DB 543 TGTGTTATATGCAAGGCGCTGATGATGAGAAACCTATTCAGTATCTCTGATGAA 602  
QY 1337 CCACGACACTATGTTATCATCAAAACAGAAATCATAGGAGATGTACAAATGATGAGA 1416  
DB 603 CCACGACACTATGTTATCATCAAAACAGAAATCATAGGAGATGTACAAATGATGAGA 642  
QY 1417 AAGATTAGTACTTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 1475  
DB 663 AAGATTAGTACTTCACTGATGATGATGATGATGATGATGATGATGATGATGATGATG 722  
QY 1477 TCTCAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1536  
DB 723 TCTCAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 782  
QY 1537 ACACCCACTCAACATGATGAGGAATGATGATGATGATGATGATGATGATGATGAT 1595  
DB 783 ACACCCACTCAACATGATGAGGAATGATGATGATGATGATGATGATGATGATGAT 841

RESULT 6  
US-09-729-454-6/c  
Sequence 6, Application US/09729454  
Patent No. US20020137038A1  
GENERAL INFORMATION:  
APPLICANT: Lasek, Amy W.  
TITLE OF INVENTION: Krasnov, Randi E.  
TITLE OF INVENTION: INTESTINAL PROTEINS  
FILE REFERENCE: PC-0028 CIP  
CURRENT APPLICATION NUMBER: US/09/729,454  
CURRENT FILING DATE: 2000-12-04  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: PERL Program  
SEQ ID NO 6  
LENGTH: 545  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. US20020137038A1 7025575V1  
US-09-729-454-6

Query Match 25.3%; Score 409; DB 10; Length 545;  
Best Local Similarity 99.6%; Pred. No. 3.3e-167;  
Matches 509; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 319 AAGTCTTATTCCTAAACACCACTGATATCAATTAAGCCATTAAGAGAGTGAAT 378  
DB 511 AAGTCTTATTCCTAAACACCACTGATATCAATTAAGCCATTAAGAGAGTGAAT 442  
QY 379 CAGATTAAGGAATATAGAGAACTAGATAGAGAGATGAGTCCAGCCAGACCTTTGAGCA 414  
DB 451 CAGATTAAGGAATATAGAGAACTAGATAGAGAGATGAGTCCAGCCAGACCTTTGAGCA 472

```
OY 439 CGTGAACACACACACACACACACATAGACACACACACACACACCTCGAGATAC 498
Dh 391 CGTGAACACACACACACACACACACACACACACACACACACACACACACAC 332
OY 499 CTACTGACAGGAGAGACACACACACACACACACACACACACACACACACAC 558
Dh 331 CTACTGACAGGAGAGACACACACACACACACACACACACACACACACACAC 272
OY 559 GAGCAATATGACAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 618
Dh 271 GAGCAATATGACAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 212
OY 619 TGCTTCAGCAAAAGTACTGACTTCACAAACGACACACACACACACACACCT 678
Dh 211 TGCTTCAGCAAAAGTACTGACTTCACAAACGACACACACACACACACACCT 152
OY 679 CTGACAGGACACAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 738
Dh 151 CTGACAGGACACAGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 92
OY 739 TCTCTGAGTGTGACAGCAACAGGCTATGACAGGCTGATCTTCACAGGCT 798
Dh 91 TCTCTGAGTGTGACAGCAACAGGCTATGACAGGCTGATCTTCACAGGCT 32
OY 799 TGGCACTTCCCAAGTCCACCTCTGAAATGAGG 829
Dh 31 TGGCACTTCCCAAGTCCACCTCTGAAATGAGG 1
```

## RESULT 7

US-09-729-454-9

Sequence 9, Application US/09729454

Patent No. US20020137038A1

GENERAL INFORMATION:

APPLICANT: Lasek, Amy W.

APPLICANT: Krasnow, Randi E.

APPLICANT: Baughn, Mariah R.

TITLE OF INVENTION: INTESTINAL PROTEINS

FILE REFERENCE: PC-0028 CIP

CURRENT APPLICATION NUMBER: US/09/729,454

CURRENT FILING DATE: 2000-12-04

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PERL Program

SEQ ID NO 9

LENGTH: 394

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc-feature

OTHER INFORMATION: Incyte ID No. US20020137038A1 7128544H1

US-09-729-454-9

Query Match 23.2%; Score 375; Dh 10; Length 394;  
Best Local Similarity 100.0%; Pred. No. 1.5e-152;  
Matches 375; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1221 TTGACAGAACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1280
Dh 20 TTGACAGAACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 79
OY 1281 GACCCCTTCCATTCATGCTTTTATCCGAGAGGCGCTCAATCTCCAGAAAGCAT 1340
Dh 80 GACCCCTTCCATTCATGCTTTTATCCGAGAGGCGCTCAATCTCCAGAAAGCAT 139
OY 1341 ATCTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1400
Dh 140 ATCTCTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 199
OY 1401 TGTACATGATGACAGAAAGATTTAGTACTTCAATGATTCATTCATATAT 1460
Dh 200 TGTACATGATGACAGAAAGATTTAGTACTTCAATGATTCATTCATATAT 259
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OY 1461 AGGACATTTCCAGAGATCTCAGTGTGAGTATCATGTGCTGGGATATTAACAT 1520
Dh 260 AGGACATTTCCAGAGATCTCAGTGTGAGTATCATGTGCTGGGATATTAACAT 319
OY 1521 ATGGCAAAATATGACAGCCACCTCAACATGTAGTGGAAATCAATATATAT 1580
Dh 320 ATGGCAAAATATGACAGCCACCTCAACATGTAGTGGAAATCAATATATAT 379
OY 1581 TAACTATATTTGTT 1595
Dh 380 TAACTATATTTGTT 394
```

## RESULT 8

US-09-729-454-4

Sequence 4, Application US/09729454

Patent No. US20020137038A1

GENERAL INFORMATION:

APPLICANT: Lasek, Amy W.

APPLICANT: Krasnow, Randi E.

APPLICANT: Baughn, Mariah R.

TITLE OF INVENTION: INTESTINAL PROTEINS

FILE REFERENCE: PC-0028 CIP

CURRENT APPLICATION NUMBER: US/09/729,454

CURRENT FILING DATE: 2000-12-04

NUMBER OF SEQ ID NOS: 32

SOFTWARE: PERL Program

SEQ ID NO 4

LENGTH: 240

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc-feature

OTHER INFORMATION: Incyte ID No. US20020137038A1 2771041H1

US-09-729-454-4

Query Match 14.9%; Score 240; Dh 10; Length 240;  
Best Local Similarity 100.0%; Pred. No. 2.8e-94;  
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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OY 1 ATCCATGCTAAAGTAAACAACTGCAACTATATCTGCAATTTATTTGATAGACA 60
Dh 1 ATCCATGCTAAAGTAAACAACTGCAACTATATCTGCAATTTATTTGATAGACA 60
OY 61 GAGGATGCGCAGTAGACACTGGGCTTGAGAGAAATCTCAACAGCTAGCTGCAG 120
Dh 61 GAGGATGCGCAGTAGACACTGGGCTTGAGAGAAATCTCAACAGCTAGCTGCAG 120
OY 121 AGAGTCTATGTAGGATTTGAACTGTAAAGTAAAGATCTCAATATGAAATAG 180
Dh 121 AGAGTCTATGTAGGATTTGAACTGTAAAGTAAAGATCTCAATATGAAATAG 180
OY 181 TATGATTAATTTAAGTCACTATTTGCACTGTTTATATATGAGCTCTGATCATTT 240
Dh 181 TATGATTAATTTAAGTCACTATTTGCACTGTTTATATATGAGCTCTGATCATTT 240
```

RESULT 9  
US-09-729-454-7  
Sequence 7, Application US/09729454  
Patent No. US20020137038A1  
GENERAL INFORMATION:  
APPLICANT: Lasek, Amy W.  
APPLICANT: Krasnow, Randi E.  
APPLICANT: Baughn, Mariah R.  
TITLE OF INVENTION: INTESTINAL PROTEINS  
FILE REFERENCE: PC-0028 CIP  
CURRENT APPLICATION NUMBER: US/09/729,454  
CURRENT FILING DATE: 2000-12-04  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: PERL Program  
SEQ ID NO 7  
LENGTH: 236

```

? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: misc_feature
? OTHER INFORMATION: Incyte ID No. US20020137038A1 5596934H1
? NAME/KEY: unsure
? LOCATION: 228
? OTHER INFORMATION: a, t, c, g, or other
? US-09-729-454-7

```

```

Query Match      13.2%; Score 213; DB 10; Length 236;
Best Local Similarity 100.0%; Pred. No. 1,2e-82; Indels 0; Gaps 0;
Matches 213; Conservative 0; Mismatches 0;

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```

? 766 TGACAGGTCATCTTCACTGCGCAGCTTGTGTCATGTCACCTTCCCAAGTCCACTGTGAAG 825
? 15 TGACAGGTCATCTTCACTGCGCAGCTTGTGTCATGTCACCTTCCCAAGTCCACTGTGAAG 74
? 826 TGCCCTGATCTTAACACAAATGCTGAATTTGCCAGTACTGGACACAGACAGACAGA 885
? 75 TGCCCTGATCTTAACACAAATGCTGAATTTGCCAGTACTGGACACAGACAGACAGA 134
? 886 AGCCTTCTACTGTGTAGGCTCAACACATGCGCTGTCTGCTCACTCACTCACTATATTC 945
? 135 AGCCTTCTACTGTGTAGGCTCAACACATGCGCTGTCTGCTCACTCACTCACTATATTC 194
? 946 TAAGAACAAAGATTCTTATCTAGCAACA 978
? 195 TAAGAACAAAGATTCTTATCTAGCAACA 227

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RESULT 10
US-10-046-935-181
Sequence 181, Application US/10046935

```

```

? GENERAL INFORMATION:
? APPLICANT: Jiang, Yugu
? APPLICANT: Harlocker, Susan L.
? APPLICANT: Secrist, Heather
? APPLICANT: Wang, Aljun A.
? APPLICANT: Stolk, John A.
? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
? TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
? FILE REFERENCE: 210121.527C1
? CURRENT APPLICATION NUMBER: US/10/046,935
? CURRENT FILING DATE: 2002-01-15
? NUMBER OF SEQ ID NOS: 2239
? SOFTWARE: FASTSEQ for Windows Version 4.0
? SEQ ID NO 181
? LENGTH: 554
? TYPE: DNA
? ORGANISM: Homo sapiens
? US-10-046-935-181

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Query Match      12.3%; Score 198; DB 9; Length 554;
Best Local Similarity 100.0%; Pred. No. 3.6e-76; Indels 0; Gaps 0;
Matches 198; Conservative 0; Mismatches 0;

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? 924 CTGACATCATCATGATTTCTTAAGAACAAAGTTTCTTATCTAGCAAAACAGAA 983
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RESULT 11
US-10-046-935-388/C
Sequence 388, Application US/10046935

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? GENERAL INFORMATION:
? APPLICANT: Jiang, Yugu
? APPLICANT: Harlocker, Susan L.
? APPLICANT: Secrist, Heather
? APPLICANT: Wang, Aljun A.
? APPLICANT: Stolk, John A.
? TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
? TITLE OF INVENTION: AND DIAGNOSIS OF COLON CANCER
? FILE REFERENCE: 210121.527C1
? CURRENT APPLICATION NUMBER: US/10/046,935
? CURRENT FILING DATE: 2002-01-15
? NUMBER OF SEQ ID NOS: 2239
? SOFTWARE: FASTSEQ for Windows Version 4.0
? SEQ ID NO 388
? LENGTH: 580
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: misc_feature
? LOCATION: 546-560
? OTHER INFORMATION: n = A,T,C or G
? US-10-046-935-388

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Best Local Similarity 99.3%; Pred. No. 7.3e-31; Indels 0; Gaps 0;
Matches 143; Conservative 0; Mismatches 1;

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? 1122 TGGATAGCAATCATCATCATGTCGCAAAATTTCTTATCTTATGATGATCAATTA 1182
? 84 TGGATAGCAATCATCATCATGTCGCAAAATTTCTTATCTTATGATGATCAATTA 25
? 1182 CCTATTGAGTCAAGATGAGCT 1205
? 24 CCTATTGAGTCAAGATGAGCT 1

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RESULT 12
US-09-729-454-11
Sequence 11, Application US/09729454

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? GENERAL INFORMATION:
? APPLICANT: Lasek, Amy W.
? APPLICANT: Krasnow, Randi E.
? APPLICANT: Baughn, Mariah R.
? TITLE OF INVENTION: INTESTINAL PROTEINS
? FILE REFERENCE: PC-0028 CIP
? CURRENT APPLICATION NUMBER: US/09/729,454
? CURRENT FILING DATE: 2000-12-04
? NUMBER OF SEQ ID NOS: 32
? SOFTWARE: PERL Program
? SEQ ID NO 11
? LENGTH: 661
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: misc_feature
? OTHER INFORMATION: Incyte ID No. US20020137038A1 133945F6
? US-09-729-454-11

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Query Match      5.4%; Score 88; DB 10; Length 661;
Best Local Similarity 100.0%; Pred. No. 1e-28; Indels 0; Gaps 0;
Matches 88; Conservative 0; Mismatches 0;

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Db 344 CATTAAAGCCACTAACAGAGACTGACTGAGTAATAAGAAATCATAGAGAACTAGATC 403  
|||||  
QY 411 AGCAGATCCACCCAGACCTTTCACCCA 438  
|||||  
Db 404 AGCAGATCCACCCAGACCTTTCACCCA 431

## RESULT 13

US-09-729-454-31  
Sequence 31, Application US/09729454  
Patent No. US20020137038A1

## GENERAL INFORMATION:

APPLICANT: Lassek, Amy W.  
APPLICANT: Krasnow, Randi E.  
TITLE OF INVENTION: INTESTINAL PROTEINS  
FILE REFERENCE: PC-0028 CIP  
CURRENT APPLICATION NUMBER: US/09/729,454  
CURRENT FILING DATE: 2000-12-04  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: PERL program  
SEQ ID NO 31  
LENGTH: 1545  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. US20020137038A1 GNN.g9795680\_006.edlt  
US-09-729-454-31

Query Match  
Best Local Similarity 100.0%; Score 88; DB 10; Length 1545;  
Matches 88; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 411 AGCAGATCCACCCAGACCTTTCACCCA 438  
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Db 146 AGCAGATCCACCCAGACCTTTCACCCA 173

## RESULT 14

US-09-729-454-10  
Sequence 10, Application US/09729454  
Patent No. US20020137038A1

## GENERAL INFORMATION:

APPLICANT: Lassek, Amy W.  
APPLICANT: Krasnow, Randi E.  
TITLE OF INVENTION: INTESTINAL PROTEINS  
FILE REFERENCE: PC-0028 CIP  
CURRENT APPLICATION NUMBER: US/09/729,454  
CURRENT FILING DATE: 2000-12-04  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: PERL program  
SEQ ID NO 10  
LENGTH: 2248  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. US20020137038A1 7484349CB1  
US-09-729-454-10

Query Match  
Best Local Similarity 100.0%; Score 88; DB 10; Length 2248;  
Matches 88; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 344 CATTAAAGCCACTAACAGAGACTGACTGAGTAATAAGAAATCATAGAGAACTAGATC 403  
|||||  
QY 411 AGCAGATCCACCCAGACCTTTCACCCA 438  
|||||  
Db 404 AGCAGATCCACCCAGACCTTTCACCCA 431

## RESULT 15

US-09-729-454-8  
Sequence 8, Application US/09729454  
Patent No. US20020137038A1

## GENERAL INFORMATION:

APPLICANT: Lassek, Amy W.  
APPLICANT: Krasnow, Randi E.  
TITLE OF INVENTION: INTESTINAL PROTEINS  
FILE REFERENCE: PC-0028 CIP  
CURRENT APPLICATION NUMBER: US/09/729,454  
CURRENT FILING DATE: 2000-12-04  
NUMBER OF SEQ ID NOS: 32  
SOFTWARE: PERL program  
SEQ ID NO 8  
LENGTH: 414  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: misc\_feature  
OTHER INFORMATION: Incyte ID No. US20020137038A1 3229449P6  
LOCATION: 47-105, 248  
OTHER INFORMATION: a, t, c, g, or other  
US-09-729-454-8

Query Match  
Best Local Similarity 100.0%; Score 73; DB 10; Length 414;  
Matches 73; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 1117 GGATTTGGATAGG 1129  
|||||  
Db 235 GGATTTGGATAGG 247

Search completed: November 22, 2002, 04:45:20  
Job time : 873 secs

GenCore version 5.1.3  
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# OM nucleic - nucleic search, using sw model

Run on: November 22, 2002, 01:11:26 ; Search time 4129 seconds

(without alignments)  
11390.200 Million cell updates/sec

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Scoring table: OLLIGO\_NUC  
Gapop 60.0 ; Capext 60.0

Searched: 2054640 seqs, 14551402878 residues

Word size : 0

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: listing first 45 summaries

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2: gb\_hig:.\*  
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11: gb\_sts:.\*  
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40: em\_higo\_mus:.\*  
41: em\_higo\_other:.\*

Print. No is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Match	Query Length	DB ID	Description
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2	1005	62.2	1005	6	AX458405 Sequence
3	987	61.1	1739	6	AX358758 Sequence
4	987	61.1	1739	6	AX362251 Sequence
5	983	60.8	1138	6	AX083510 Sequence
6	738	45.7	81975	2	AP000450 Homo sapi
7	738	45.7	146841	2	AC020549 Homo sapi
8	738	45.7	187852	2	AC068041 Homo sapi
9	558	34.5	621	6	AX458380 Sequence
10	528	32.7	1704	6	AX000134 Sequence
11	409	25.3	545	6	AX458381 Sequence
12	400	24.8	400	6	AX386470 Sequence
13	375	23.2	394	6	AX458384 Sequence
14	350	21.7	178494	2	AC067812 Homo sapi
15	240	14.9	240	6	AX458379 Sequence
16	213	13.2	236	6	AX458382 Sequence
17	198	12.3	557	6	AX339334 Sequence
18	192	11.9	275	6	AX079818 Sequence
19	181	11.2	532	6	AX351427 Sequence
20	93	5.8	583	6	AX340141 Sequence
21	88	5.4	211	6	AX383391 Sequence
22	88	5.4	611	6	AX385432 Sequence
23	88	5.4	1545	6	AX458406 Sequence
24	88	5.4	1248	6	AX458385 Sequence
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35	33	2.0	206	6	AX458391 Sequence
36	32	2.0	257	6	AX458397 Sequence
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38	29	1.8	178494	2	AC067812 Homo sapi
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42	24	1.5	394	6	AX458384 Sequence
43	24	1.5	150489	2	AC068854 Homo sapi
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## ALIGNMENTS

RESULT 1	AX458378	1616 bp	DNA	linear	PAT 08-JUL-2002
LOCUS	AX458378				
DEFINITION	Sequence 3 from Patent WO0246411.				
ACCESSION	AX458378				
VERSION	AX458378.1	GI:21725046			
KEYWORDS					
SOURCE	human.				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.				
TITLE	Lasek, A.W., Krasnow, R. and Baughn, M.R.				
JOURNAL	Intestinal proteins				
	Patent: WO 0246411-A 3 13-JUN-2002.				

Incyle Genomes, Inc. (US)  
 Location/Qualifiers  
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 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /note="Incyle ID No: 3229449CB1"

BASE COUNT 511 a 374 c 324 g 407 t  
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Query Match 100.0%; Score 1616; DB 6; Length 1616;  
 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 1616; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 1 ATCCATGCTAAAGCTAAACAACTGCAACTTATATCTGCAATTTATTTGGTATAGACAA 60
OY 61 GAGGTATGCCAGTAGACACAGCTGGTGGCTTCAGAAATTTCTCAACCCCTAGCTGGCCAG 120
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OY 181 TATGATTAATTAATAGTCACTATTGGCACTGTGTTTATATTAGCTCGCTGGATCATTTT 240
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DB 1381 AACGAAAAACATCAGGAGATGTATGATATGATGATGATGATGATGATGATGATGAT 1440
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RESULT 2  
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 DEFINITION Sequence 30 from Patent WO0246411.  
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 VERSION AX458405.1 GI:21725073  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1  
 Lasak A.W., Krasnow R. and Baughm M.R.  
 Intestinal proteins  
 Patent: WO 0246411-A 30.13-JUN-2002;  
 Incyle Genomes, Inc. (US)  
 Location/Qualifiers  
 1..1005  
 /organism="Homo sapiens"  
 /db\_xref="taxon:9606"  
 /note="Incyle ID No: GNN.g9965027\_000007\_006"

BASE COUNT 303 a 225 c 211 g 266 t  
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 QY 915 TGGCTGTGCTGCACTACATCATATATTTAGAAACAAAGAAATTTCTTATCTAGCA 974  
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 AX362251 1739 bp DNA linear PAT 15-FEB-2002  
 LOCUS Sequence 11 from Patent WO0208288.  
 DEFINITION AX362251  
 ACCESSION AX362251  
 VERSION AX362251.1 GI:18694583  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE  
 1 Baker, K.P., Desnoyers, L., Gerritsen, M.E., Goddard, A.,  
 Godowaki, P.J., Grimaldi, J.C., Gurney, A.D., Smith, V., Stephan, J.P.,  
 Watanabe, C.K. and Wood, W.F.  
 TITLE Secreted and transmembrane polypeptides and nucleic acids encoding  
 the same  
 JOURNAL Patent: WO 0208288-A 11 31-JAN-2002;  
 Genentech, Inc. (US)  
 FEATURES  
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 BASE COUNT 545 a 405 c 359 g 430 t  
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 Best Local Similarity 100.0%; Pred. No. 0;  
 Matches 987; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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 DB 723 TCAATGGCACTTCCCAAGTCACTCTGAATGTGGCTGATCTTAAACAAATGCTGAAT 782  
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 QY 975 AACAGAAAAAGAGCCTTTTGAAGGTCAATGTGGGTAGATGATTAAGAAAAATTTCA 1034  
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 AX083510 1138 bp DNA linear PAT 28-FEB-2001  
 LOCUS Sequence 52 from Patent WO0112662.  
 DEFINITION AX083510  
 ACCESSION AX083510  
 VERSION AX083510.1 GI:13185320  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
 REFERENCE  
 1 (bases 1 to 1138)  
 AUTHORS Lal, P., Yue, H., Tang, Y.T., Bandman, O., Burford, N., Azimzai, Y.,  
 Baughn, M.R., Lu, D.A. and Patterson, C.  
 TITLE Membrane associated proteins  
 JOURNAL Patent: WO 0112662-A 52 22-FEB-2001;  
 Incyte Genomics, Inc. (US)  
 FEATURES  
 source Location/Qualifiers  
 1. 1138  
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 /db\_xref="taxon:9606"

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Query Match 60.8% Score 983; DH 6; Length 1138;  
 Best Local Similarity 100.0%; Pred. 0.0;  
 Matches 983; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Db 961 ACAAAGAGCCTTTGAAAGGT 983

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 Y 79 ACTGCTGCTCAGAGAAATCTCAACCTAGCTGGGACAGAGCTATGTTGGAT 138  
 Db 61 ACTGCTGCTCAGAGAAATCTCAACCTAGCTGGGACAGAGCTATGTTGGAT 120  
 Y 139 TGAACAAATCTGTAACCTAAAGCATCTTATCAGAAATTAAGTATGTAATTAAGTC 198  
 Db 121 TGAACAAATCTGTAACCTAAAGCATCTTATCAGAAATTAAGTATGTAATTAAGTC 180  
 Y 199 ACTATTTGCACTGTTGTTATATTTAGCTCTGATCATTTTACAGTTTCCAGAACTC 258  
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 Y 459 TCAAAAGTTTGGTGGCTTAACCTATATCCATCTCCCTCATTAGTGAACAACCTCAC 318  
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 Y 319 AAGTCTTATTTCCCTAAACACGACTGATATCATTAAGCCAGACAGAGCTGAAT 378  
 Db 301 AAGTCTTATTTCCCTAAACACGACTGATATCATTAAGCCAGACAGAGCTGAAT 360  
 Y 379 CAGATTAAGCAATGATAGAAATAGATAGATAGATAGATAGATAGATAGATAGATAG 438  
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 Y 439 CGTGAACACACACACACACACACACATAGACAGACACACACACACACACACACAC 498  
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 Db 541 GAAGCAATATGGCGGAGATTTCTGAGAGGAGAGATCTTCCCAAGGCTATGAGCAG 600  
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 Db 601 TGTTCAG 660  
 Y 679 CTGGAGAGGCGAG 738  
 Db 661 CTGGAGAGGCGAG 720  
 Y 739 TCTCTGAGTGAAG 798  
 Db 721 TCTCTGAGTGAAG 780  
 Y 799 TGGACTTCCCAAGTCACTGATATGCTGCTGATGCTTAAACAAATGCTGAATGCT 858  
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 Y 859 CGAGTACTGCAACAG 918  
 Db 841 CGAGTACTGCAACAG 900  
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## COMMENT

RESULT 6  
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 DEFINITION  
 Homo sapiens chromosome 11 clone XXP1-307 map 11q23. WORKING DRAFT  
 SEQUENCE, 5 unordered pieces.  
 ACCESSION  
 AP000450  
 VERSION  
 AP000450.3 GI:8118763  
 KEYWORDS  
 HTGS-PHASE1; HTGS-DRAFT.  
 SOURCE  
 Homo sapiens  
 ORGANISM  
 Homo sapiens

REFERENCE  
 AUTHORS  
 Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,  
 1 (bases 1 to 81975)  
 Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,  
 Fujiyama, A., Yada, T., Totoki, Y., Watanabe, H., and Sakaki, Y.  
 Homo sapiens 81,975 genomic DNA of 11q23  
 Published Only in Database (1999)  
 2 (bases 1 to 81975)  
 Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,  
 Fujiyama, A., Yada, T., Totoki, Y., Watanabe, H., and Sakaki, Y.  
 Direct Submission  
 Submitted (13-SEP-1999) Masahira Hattori, The Institute of Physical  
 and Chemical Research (RIKEN), Genomic Sciences Center (GSC);  
 Kitasato Univ., 1-15-1 Kitasato, Sagamihara, Kanagawa 228-8555,  
 Japan (E-mail: hattori@qsc.riken.go.jp,  
 URL: http://hqp.qsc.riken.go.jp/, Tel: 81-42-778-9923,  
 Fax: 81-42-778-9924)  
 On May 31, 2000 this sequence version replaced q1:7630227.

## TITLE

JOURNAL  
 Hattori, M., Ishii, K., Toyoda, A., Taylor, T. D., Hong-Seog, P.,  
 Fujiyama, A., Yada, T., Totoki, Y., Watanabe, H., and Sakaki, Y.  
 Direct Submission  
 Submitted (13-SEP-1999) Masahira Hattori, The Institute of Physical  
 and Chemical Research (RIKEN), Genomic Sciences Center (GSC);  
 Kitasato Univ., 1-15-1 Kitasato, Sagamihara, Kanagawa 228-8555,  
 Japan (E-mail: hattori@qsc.riken.go.jp,  
 URL: http://hqp.qsc.riken.go.jp/, Tel: 81-42-778-9923,  
 Fax: 81-42-778-9924)  
 On May 31, 2000 this sequence version replaced q1:7630227.

Center: RIKEN Genomic Sciences Center (GSC)  
 Center code: RIKEN  
 Web site: http://hqp.qsc.riken.go.jp/  
 Contact: hattori@qsc.riken.go.jp

## Project Information

Center project name: HUNDRAFL1  
 Center clone name: XXP1-307

## Summary Statistics

Sequencing vector: PCR products; 100% of reads  
 Chemistry: Dye-terminator ET-amersham; 100% of reads  
 Assembly program: Phrap; version 0.990329  
 Consensus quality: 79702 bases at least Q40  
 Consensus quality: 80980 bases at least Q30  
 Consensus quality: 81428 bases at least Q20  
 Insert size: 81575; sum-of-coverage  
 Quality coverage: 5.76x in Q20 bases; sum-of-coverage

NOTE: This is a 'working draft' sequence. It currently consists of  
 5 contigs. The true order of the pieces is not known and their  
 order in this sequence record is arbitrary. Gaps between the  
 contigs are represented as runs N, but the exact sizes of the gaps  
 are unknown. This record will be updated with the finished sequence  
 as soon as it is available and the accession number will be  
 preserved

1 35184 contig of 35184 bp in length  
 35285 51779 contig of 16495 bp in length  
 51880 63010 contig of 11131 bp in length  
 63111 73886 contig of 10776 bp in length  
 73987 81975 contig of 7989 bp in length  
 Sequence updated (18-Apr-2000)  
 Sequence updated (26-May-2000).

\* NOTE: This is a 'working draft' sequence. It currently  
 consists of 5 contigs. The true order of the pieces  
 is not known and their order in this sequence record is  
 arbitrary. Gaps between the contigs are represented as  
 runs of N, but the exact sizes of the gaps are unknown.  
 \* This record will be updated with the finished sequence  
 as soon as it is available and the accession number will  
 be preserved.  
 1 35184: contig of 35184 bp in length

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* 35185 35284: gap of 100 bp
* 35285 51779: contig of 16495 bp in length
* 51780 51879: gap of 100 bp
* 51880 63010: contig of 11131 bp in length
* 63011 63110: gap of 100 bp
* 63111 73886: contig of 10776 bp in length
* 73887 73986: gap of 100 bp
* 73987 81975: contig of 7989 bp in length.
Location/Qualifiers
1..81975

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## FEATURES

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ORIGIN

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 738; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 324 CTTATTCCTTAACACGCTGATTCATTAAGCCACTAACAGAGACTGAATCAGAA 383
DB 57649 CTTATTCCTTAACACGCTGATTCATTAAGCCACTAACAGAGACTGAATCAGAA 57590
QY 384 TAAAGGAATCATAGAAACTAGATCCAGATCCAGCCAGACTTTCACCCAGCTGA 443
DB 57589 TAAAGGAATCATAGAAACTAGATCCAGATCCAGCCAGACTTTCACCCAGCTGA 57530
QY 444 ACACCAACCAAGCGGCACACATAGACAGCCACACTCTCAACCTCGAGATAGCTACT 503
DB 57529 ACACCAACCAAGCGGCACACATAGACAGCCACACTCTCAACCTCGAGATAGCTACT 57470
QY 504 GCAGGGAGACCACTGTCATCTGCTGAGGTGAGGAGACCACTTGGACGAGGAGAC 563
DB 57469 GCAGGGAGACCACTGTCATCTGCTGAGGTGAGGAGACCACTTGGACGAGGAGAC 57410
QY 564 AATATGGGGGGGATTCCTGAGGGGCAAGATGCTTCCCAAGCGTATGGCAGTGCTT 623
DB 57409 AATATGGGGGGGATTCCTGAGGGGCAAGATGCTTCCCAAGCGTATGGCAGTGCTT 57350
QY 624 CAGGAAAGGTACTGACTTCAACACGACACTACCTGCTGAGTTCACTCTTCTGGG 683
DB 57349 CAGGAAAGGTACTGACTTCAACACGACACTACCTGCTGAGTTCACTCTTCTGGG 57290
QY 684 AGGGCAGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 743
DB 57289 AGGGCAGGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 57230
QY 744 GAGTGCAAGGACCAAGGCTATGACAGGGTATCTTCACTGGCCAGTTTGCAATGACA 803
DB 57229 GAGTGCAAGGACCAAGGCTATGACAGGGTATCTTCACTGGCCAGTTTGCAATGACA 57170
QY 804 CTTCCAGTCACTGCTGAATGCTGCTGCTGAATGCTGCTGAATGCTGCTGAATGCTGCT 863
DB 57169 CTTCCAGTCACTGCTGAATGCTGCTGCTGAATGCTGCTGAATGCTGCTGAATGCTGCT 57110
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DB 56989 AGAGCTCTTTGAAAGGT 56972

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RESULT 7
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LOCUS Homo sapiens BAC clone RP11-172C16 from 11, complete sequence.
AC020549
VERSION AC020549.4 GI:9795680
KEYWORDS HTG.
SOURCE Homo sapiens.
ORGANISM Homo sapiens.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo
1 (bases 1 to 146841)
Sulston, J.E., and Waterston, R.
Toward a complete human genome sequence
Genome Res. 8 (11), 1097-1108 (1998)
99063792
MEDLINE
PUBMED
9847074
2 (bases 1 to 146841)
Edwards, J., Drone, K., Lapiant, Y., and Ahuvelia, R.
The sequence of Homo sapiens BAC clone RP11-172C16
Unpublished
3 (bases 1 to 146841)
Waterston, R.H.
Direct Submission
Submitted (03-JAN-2000) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
4 (bases 1 to 146841)
Waterston, R.H.
Direct Submission
Submitted (11-AUG-2000) Genome Sequencing Center, Washington
University School of Medicine, 4444 Forest Park Parkway, St. Louis,
MO 63108, USA
5 (bases 1 to 146841)
Waterston, R.
Direct Submission
Submitted (08-NOV-2000) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
6 (bases 1 to 146841)
Waterston, R.
Direct Submission
Submitted (09-MAY-2001) Department of Genetics, Washington
University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
On Aug 11 2000 this sequence version replaced g1:7630875
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: http://genome.wustl.edu/gsc
Contact: sapiens@wustl.edu
----- Summary Statistics
Center project name: H_NH0172C16

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NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.

This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternative chemistry, or covered by high quality data (i.e., phred quality >=

30): an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by restriction digest.

#### MAPPING INFORMATION:

Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis Mo. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

#### SOURCE INFORMATION:

The RPC1-11 human BAC library was made from the blood of one male donor, as described by Osada, K., Moon, P.Y., Zhao, B., Frengen, E., Tateo, M., Caranese, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at the Roswell Park Cancer Institute (<http://bacpac.med.buffalo.edu>)

#### VECTER: pBAC3.6

#### NEIGHBORING SEQUENCE INFORMATION:

The clone sequenced to the left is RP11-720G3; the clone sequenced to the right is RP11-643W23. Actual start of this clone is at base position 1 of RP11-172C16; actual end is at base position 146841 of RP11-172C16.

The region from base position 130951 to 131438 represents the best possible assembly of an imperfect TA repeat. Restriction digest information from EcoRV, HindIII, and BamHI indicates that approximately 150 to 230 bases may be missing from the final sequence.

#### FEATURES

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1. 146841  
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Best Local Similarity 100.0%; Pred. No. 0;  
Matches 738; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Yy 324 CCTTATTCCTTAAACACACCTGATATCATTAAAGCCACTAAAGAGCTGACTAGAA 383
Db 64836 CCTTATTCCTTAAACACACCTGATATCATTAAAGCCACTAAAGAGCTGACTAGAA 64895

Yy 384 TAAAGAAATCATAGAGAACTAGTACAGAGATGCCAGCCAGACCTTTACCCAGTGA 443
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Yy 444 ACACCACCAACGCGCAACATAGCACAGCCAGCATCCTCAACCTCGAGATAGTACT 503
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Yy 504 GCAGGGGAGACACAGTGCACATCTGCTGGAGGTAGAGGACCTTTGGAGCGAGGAAAG 563
Db 65016 GCAGGGGAGACACAGTGCACATCTGCTGGAGGTAGAGGACCTTTGGAGCGAGGAAAG 65075

Yy 564 AATATGCGCGGCTTTCTCTGAGGGCCAGCATGTCTTCCCAAGCGCTGATGGAGTGGCT 623
Db 65076 AATATGCGCGGCTTTCTCTGAGGGCCAGCATGTCTTCCCAAGCGCTGATGGAGTGGCT 65135

Yy 624 CAGGAAAGCTGACTGACTTCAACAGCGGACCGACCTGCTGAGTTGACCTCTGCGG 683
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KASH380/c 621 bp DNA linear PAT 08-JUL-2002  
DEFINITION Sequence 5 from Patent W00246411.  
ACCESSION AK458380  
VERSION AK458380.1 GI:21725048  
KEYWORDS EYM/RDS  
SOURCE human.  
ORGANISM Homo sapiens

REFERENCE  
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
TITLE Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
JOURNAL Lasek, A.W., Krasnow, R. and Baughn, M.R.  
Intestinal proteases  
Patent: WO 0246411-A 5 13-JUN-2002;  
Incyte Genomics, Inc. (US)  
FEATURES  
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/note="Incyte ID No: 71851705V1"

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Matches 608; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy 330 TCCCTAAACACACCTGATATCATTAAGCCATTAAGAGACTGAAGTCAATTAAGG 389
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Qy 510 GAGACAGCTGCATCTGCTGAGGTAGAGGAGACCACTTGGAGCCAGAAAGCAATATG 569
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Db 201 AGGTGACTGACTTGAACAGGAGCACTACCTGCTGAGTCTGCTGTTGGAGGGCC 142

Qy 690 AGGTCTCTGCTGCTGCTGCTGATCCACCCAGTGAAGGGGTGCTGAGTCTGAGTATG 749
Db 141 AGGTCTCTGCTGCTGCTGCTGATCCACCCAGTGAAGGGGTGCTGAGTCTGAGTATG 82

Qy 750 CAAAGAACCAAGGCTATGACAGGCTGATTTGACGCGAGTTTGAATGGCACTTCCG 809
Db 81 CAAAGAACCAAGGCTATGACAGGCTGATTTGACGCGAGTTTGAATGGCACTTCCG 22

Qy 810 AAGTCACT 818
Db 21 AAGTCACT 13
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RESULT 10  
AK000134 1704 bp mRNA linear PRI 22-FEB-2000  
LOCUS AK000134  
DEFINITION Homo sapiens cDNA FLJ20127 fls, clone COL06176.  
ACCESSION AK000134  
VERSION AK000134.1 GI:7020022  
KEYWORDS Oligo capping; fls (full insert sequence).  
SOURCE Homo sapiens colon cDNA to mRNA, clone\_11b; COL clone:COL06176.  
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

**REFERENCE**  
**AUTHORS** Kawabata, A., Hiki, J., Kobatake, N., Inagaki, H., Ikema, Y., Okamoto, S., Okitani, R., Ota, T., Suzuki, Y., Odayashi, M., Nishi, T., Shibahara, T., Tanaka, T., Nakamura, Y., Isogai, T. and Sugano, S.

**TITLE** NEDO human cDNA sequencing project

**JOURNAL** Unpublished

**REFERENCE** 2 (bases 1 to 1704)

**AUTHORS** Sugano, S., Suzuki, Y., Ota, T., Odayashi, M., Nishi, T., Isogai, T., Shibahara, T., Tanaka, T. and Nakamura, Y.

**TITLE** Direct Submission

**JOURNAL** Submitted (15-FEB-2000) Sumio Sugano, Institute of Medical Science, University of Tokyo, Department of Virology, Shirokane-dai, 4-6-1, Minato-Ku, Tokyo 108-8639, Japan (E-mail: cdna@ims.u-tokyo.ac.jp), Tel: 81-3-5449-5286, Fax: 81-3-5449-5416)

**COMMENT** NEDO human cDNA sequencing project supported by Ministry of International Trade and Industry of Japan; cDNA full insert sequencing; Research Association for Biotechnology; cDNA library construction; 5' - 6 3' and one pass sequencing; Department of Virology and Human Genome Center, Institute of Medical Science, University of Tokyo (partly supported by Science and Technology Agency).

**FEATURES**  
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**ORIGIN**

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Db 361 ACTAACGAGACTGAACTCAGATAATTAAGAAATCATAGAGAACTAGATCAGAGATCC 420

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**RESULT 11**  
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 LOCUS Sequence 6 from Patent WO0246411.  
 DEFINITION AX458381  
 ACCESSION AX458381  
 VERSION AX458381.1 GI:21725049  
 KEYWORDS  
 SOURCE human.  
 ORGANISM Homo sapiens  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

**REFERENCE**  
 1 Lasex, A.W., Krasnow, R. and Baughn, M.R.  
**AUTHORS** Intestinal proteins  
**TITLE** Patent: WO 0246411-A 6 13-JUN-2002;  
**JOURNAL** Incyte Genomics, Inc. (US)

**FEATURES**  
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**BASE COUNT** 110 a 129 c 161 g 145 t

**ORIGIN**

Query Match 25.3%; Score 409; DB 6; Length 545;  
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 Matches 509; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 1122 TGGATGGAACATCAACATCCAGTGGCAAAATATTGTTATCCCTTGATGAGATCAATGA 1181
DB 150539 TGGATGGAACATCAACATCCAGTGGCAAAATATTGTTATCCCTTGATGAGATCAATGA 150480
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QY 1242 AAAATACGTGCAATCTGATTTTCCCTGGGCGACATTTGACAGCCCTTCCCATGATGTTT 1301
DB 150419 AAAATACGTGCAATCTGATTTTCCCTGGGCGACATTTGACAGCCCTTCCCATGATGTTT 150360
QY 1302 TTATCGGAAGGGCTCTCAATGTCCACAAAGCATTACGATCTTCTTGAGAGAGCCGAG 1361
DB 150359 TTATCGGAAGGGCTCTCAATGTCCACAAAGCATTACGATCTTCTTGAGAGAGCCGAG 150300
QY 1362 ACACATGCTGATCATCTCAAAACGAAAGATGAGGAGATGATGATGAGAGAAAGAT 1421
DB 150299 ACACATGCTGATCATCTCAAAACGAAAGATGAGGAGATGATGATGAGAGAAAGAT 150240
QY 1422 TTATGCTCTTTCATGCTTACATTCATATTCATCATATAAG 1462
DB 150219 TTATGCTCTTTCATGCTTACATTCATATTCATCATATAAG 150199
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## RESULT 15

AX458379 240 bp DNA 11near PAT 08-JUL-2002  
LOCUS Sequence 4 from Patent WO0246411.  
DEFINITION AX458379  
ACCESSION AX458379.1 GI:21725047  
KEYWORDS  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

REFERENCE 1  
AUTHORS Lasek A.W., Krasnow R. and Baughn M.R.  
TITLE Intestinal proteins  
JOURNAL Patent: WO 0246411-A 4 13-JUN-2002;  
Incyte Genomics, Inc. (US)  
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/note="Incyte ID No: 2771041H1"

BASE COUNT 81 a 42 c 44 g 73 t  
ORIGIN

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Best Local Similarity 100.0%; Pred. No. 17e-124;  
Matches 240; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Search completed: November 22, 2002, 03:58:28  
Job time : 4503 secs



28-JUL-2000: 2000MO-US20710.  
 PR 23-AUG-2000: 2000MO-US23522.  
 PR 24-AUG-2000: 2000MO-US23528.  
 PR 15-SEP-2000: 2000US-000000P.  
 PR 10-NOV-2000: 2000MO-US30873.  
 PR 28-NOV-2000: 2000US-253646P.  
 PR 01-DEC-2000: 2000MO-US32678.  
 PR 20-DEC-2000: 2000US-0747259.  
 PR 20-DEC-2000: 2000MO-US34956.  
 PR 28-FEB-2001: 2001MO-US06520.  
 PR 10-MAY-2001: 2001US-0854280.  
 PR 25-MAY-2001: 2001MO-US17092.  
 (GETH ) GENENTECH INC.  
 Baker KP, Desnoyers L, Gerlitsen ME, Goddard A, Godowski PJ,  
 Grimaldi JC, Guirney AL, Smith V, Stephan JF, Matanabe CK, Wood WJ;  
 WPI: 2002-172001/22.  
 P-PSDB: AA083597.  
 One hundred and twenty two nucleic acids encoding PRO polypeptides,  
 useful for treating a PRO related disorder and for diagnosing tumours  
 such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal  
 tumour or liver tumour -  
 Claim 2, Figure 11: 359pp; English.  
 The invention relates to one hundred and twenty two nucleic acids  
 encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides  
 encode human secreted proteins. The PRO nucleic acids, polypeptides,  
 agonists and antagonists are useful for treating a PRO related disorder.  
 The PRO polypeptides are useful for diagnosing tumours, especially lung  
 cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or  
 liver tumour. The PRO polypeptides are useful for stimulating the  
 proliferation of, or gene expression, in pericyte cells, for stimulating  
 the proliferation or differentiation of chondrocyte cells, for  
 stimulating the release of tumour necrosis factor-alpha from human blood,  
 for stimulating or inhibiting the proliferation of normal human dermal  
 fibroblast cells. The PRO polypeptide may also be used as molecular  
 weight markers and for tissue typing. The PRO nucleic acids have  
 applications in molecular biology. Including use as hybridisation probes,  
 and in chromosome and gene mapping. ABR33536-ABR33557 represent human  
 PRO protein coding sequences of the invention.  
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 135 GGATTGACATCTGTAACTAAAGATCCTAATCATGAAATTAAGTATGATTAATTA 194  
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 255 ACTCCACAAAGTTGGTCTCTAAACTATCATCATCTCCGATTAATGGAAGAACT 314  
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 Db 723 TCATATGCGACTTCCCAAGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 782  
 QY 855 TGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 914  
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 DT 12-JUN-2001 (first entry)  
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 KW antiinflammatory; anticonvulsant; immunosuppressive; antidiabetic;  
 KW antiarteriosclerotic; gene therapy; cell proliferative disorder;  
 KW autoimmune disorder; inflammatory disorder; neurological disorder;  
 KW gastrointestinal disorder; cancer; inflammation; atherosclerosis;  
 KW epilepsy; diarrhoea; ss.  
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 MO200112662-A2.  
 PN 22-FEB-2001.  
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 PD 14-AUG-2000: 2000MO-US22315.  
 PF 17-AUG-1999: 99US-0149641.  
 PR

Filed 14 Aug 2000

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PR 09-NOV-1999: 99US-0164203.
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XX (INCY-) INCYTE GENOMICS INC.
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XX 1a1 P, Yue H, Tang YJ, Handman O, Hurford N, Azimzai Y;
PI Daughn MR, Lu DM, Patterson C;
XX
XX WPI: 2001-16860/17.
DR P-15DB; AAB/4709.
XX
XX Isolated polypeptide with a human membrane associated protein sequence
PT is useful for the diagnosis, prevention and treatment of cell
PT proliferative, autoimmune/inflammatory, neurological and
PT gastrointestinal disorders -
XX
XX Claim 5; page 159; 173pp; English.
XX
XX AAF81741 to AAF81777 encode the human membrane associated proteins
XX (MEMAP) given in AAB/4695 to AAB/4731. MEMAPs have cytosolic,
XX antiinflammatory, anticonvulsant, immunosuppressive, antidiabetic and
XX antiarteriosclerotic activities, which can be used in gene therapy.
XX MEMAPs and agonist of MEMAPs can be used to treat a disease or condition
XX associated with decreased expression of functional MEMAP and antagonists
XX of MEMAP are used to treat a disease or condition associated with
XX overexpression of functional MEMAP. These disorders include cell
XX proliferative, autoimmune/inflammatory, neurological and gastrointestinal
XX disorders. The MEMAP polynucleotides and proteins are also used for the
XX diagnosis of these disorders. Specific examples of these disorders
XX include cancer, inflammation, atherosclerosis, epilepsy and diarrhoea.
XX MEMAP proteins can be used to screen for compounds which specifically
XX bind MEMAP including antibodies, oligonucleotides, proteins and small
XX molecules. MEMAP polynucleotides can be used to prepare transgenic
XX animals which can be studied to provide information concerning human
XX disease. Anti-MEMAP antibodies are useful in immunoassays for the
XX detection of MEMAP protein and can be used as antagonists to treat or
XX prevent a disorder associated with MEMAP. Polynucleotides encoding MEMAP
XX can be delivered to target cells with genetic abnormalities with respect
XX to the expression of MEMAP to treat or prevent a disorder associated
XX with MEMAP.
XX
XX Sequence 1138 BP; 314 A; 274 C; 241 G; 289 T; 0 other:
XX
XX Query Match 60.8%; Score 983; DB 22; Length 1138;
XX Best Local Similarity 100.0%; Pred. No. 0;
XX Matches 981; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX 61 ACTGTGGCTTCAAGAAATTTCTCAACACTAGCTCCGACAGAGCTATATGGAT 120
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XX 149 TGAACATCTGTAACTAAAGATCTCATCTGTAAGAAATAGATGATTAATTAAGTC 198
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XX 361 CAGAAATAAAGAAATATAGAGAAACAGATCAGCAGATCCCAACCCAGCTTACCCA 420

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QY 559 GAAGCAATATGCGGGGAGATTCGAGGCGAGATGCTTCCCAACCGCTATGACAG 618
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DB 541 GAAGCAATATGCGGGGAGATTCGAGGCGAGATGCTTCCCAACCGCTATGACAG 600
QY 619 TECTTCAGGAAGCTGACTTCAACCAAGCAGCACTTACCTGATAGCTTCTCTGT 678
DB
DB 601 TECTTCAGGAAGCTGACTTCAACCAAGCAGCACTTACCTGATAGCTTCTCTGT 660
QY 679 CTGGAGAGGCGAGAGCTCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCT 738
DB
DB 661 CTGGAGAGGCGAGAGCTCTCTCTGCTGCTCTCTCTCTCTCTCTCTCTCTCTCT 720
QY 739 TCTCTGAGTGCAGGAAGCAAGGCTATGACAGGCTGATCTTCACTGCGCAGTTTGCA 798
DB
DB 721 TCTCTGAGTGCAGGAAGCAAGGCTATGACAGGCTGATCTTCACTGCGCAGTTTGCA 780
QY 799 TGGACATTCGCAAGTCCACTGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 858
DB
DB 781 TGGACATTCGCAAGTCCACTGTAATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 840
QY 859 CCACTACCTGCAACAGAGACCAAGAGCTTCTACTGTGAGGCTCAACACATGCC 918
DB
DB 841 CCACTACCTGCAACAGAGACCAAGAGCTTCTACTGTGAGGCTCAACACATGCC 900
QY 919 CTGCTGCGACCTGACATCATGATCTGTAAGAAAGAAAGTTTATCTTACGAAACA 978
DB
DB 901 CTGCTGCGACCTGACATCATGATCTGTAAGAAAGAAAGTTTATCTTACGAAACA 960
QY 979 AGAAAGAGCTCTTTGAAAGT 1001
DB
DB 961 AGAAAGAGCTCTTTGAAAGT 983

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RESULT 3  
AB086149  
ID AB086149 standard; DNA; 1629 BP.  
XX  
XX AB086149;  
XX  
XX 10-SEP-2002 (first entry)  
XX  
XX DE Novel human gene. SEQ ID 20.  
XX  
XX Human; cytosolic; vulnereary; antiarteriosclerotic; antiparkinsonian;  
XX neotrophic; neuroprotective; immunosuppressive; haemostatic;  
XX antiinflammatory; cardiact; antilucifer; virucide; antithyroid;  
XX cerebroprotective; anorectic; metabolic; vaccine; cancer; infection;  
XX wound healing disorders; atherosclerosis; Parkinson's disease;  
XX Alzheimer's disease; autoimmune disorder; haematopoietic disorder;  
XX inflammation; neoplastic disease; nervous system disorder;  
XX cardiovascular disorders; pancreatitis; respiratory disorder;  
XX hyperproliferation; systemic autoimmune disease; hyper-immunity;  
XX developmental abnormality; gastrointestinal ulceration; neuropathy;  
XX haematological disease; metabolic disease; sperm dysfunction;  
XX thyroid disorder; hypothyroidism; brain damage; colitis;  
XX cone photo- transduction deficiency; neurological disease; stroke;  
XX angiodenesis; ovulation disorder; spinal cord; thyroid gland; heart;  
XX trachea; thymus; lymph node; muscular system; obesity; anorexia;  
XX growth abnormality; precocious puberty; gene; ss.  
OS Homo sapiens.  
XX  
XX W0200250105-A1.

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PD 27-JUN-2002.
XX 17-DEC-2001; 2001WO-US49232.
XX
XX 19-DEC-2000; 2000US-256710P.
XX 20-DEC-2000; 2000US-257048P.
XX 09-JAN-2001; 2001US-260482P.
XX 30-JAN-2001; 2001US-264922P.
XX 06-FEB-2001; 2001US-266797P.
XX 19-MAR-2001; 2001US-276988P.
XX 04-APR-2001; 2001US-281535P.
XX 08-MAY-2001; 2001US-289622P.
XX
XX (SMIK ) SMITHKLINE BEECHAM CORP.
XX (SMIK ) SMITHKLINE BEECHAM PLC.
XX (GLAX ) GLAXO GROUP LTD.
XX
XX Agarwal P., Birkeland M., Cogswell JP, Kohnick KF, Lai Y;
XX Martensen SA, Rizvi SK, Smith RF, Strum JC, Xie Q;
XX WPI; 2002-508784/54.
XX P-PSDB; ABPE0984.
XX
XX Secreted proteins and polynucleotides useful as vaccines for preventing
XX or treating various diseases e.g. cancer, wounds, atherosclerosis,
XX Parkinson's disease, Alzheimer's disease, infection, autoimmune
XX disorder -
XX
XX Claim 2(a); Page 235; 335pp; English.
XX
XX The invention relates to an isolated polypeptide with signal sequences
XX which allow it to be secreted extracellularly or membrane associated.
XX The activity of polypeptides of the invention may be described as,
XX cytostatic, vulnerary, antiarteriosclerotic, antiparkinsonian, nootropic,
XX neuroprotective, immunosuppressive, haemostatic, antiinflammatory,
XX cardiant, antidiabetic, virucide, antithyroid, cerebroprotective, anorectic,
XX and metabolic polypeptides and polynucleotides of the invention are
XX useful in the treatment, or as a vaccine in the prevention of, cancer,
XX wound healing disorders, infection, atherosclerosis, Parkinson's disease
XX and Alzheimer's disease, autoimmune disorder, haematopoietic disorder,
XX inflammation, neoplastic diseases, nervous system related disorders and
XX cardiovascular disorders, pancreatitis, respiratory disorder,
XX hyperproliferation, systemic autoimmune disease, hyper-immunity,
XX developmental abnormality, gastrointestinal ulceration, neuropathy,
XX haematological diseases, metabolic diseases, sperm dysfunction, thyroid
XX disorders e.g. hypothyroidism, brain damages, colitis, cone photo-
XX transduction deficiency, neurological diseases, stroke, angiogenesis,
XX ovulation disorders, diseases in the spinal cord, thyroid gland, heart,
XX trachea, thymus, lymph node and muscular system, obesity, anorexia,
XX growth abnormalities, and alleviation of precocious puberty. The
XX sequences given in records AB086130-AB086184 represent novel human cDNA's
XX of the invention.
XX
XX Sequence 1629 BP; 497 A; 391 C; 329 G; 412 T; 0 other;
XX
XX Query Match 54.5%; Score 880; DB 24; Length 1629;
XX Best Local Similarity 100.0%; Pred. NO. 0;
XX Matches 880; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 182 ATGATAAATATATAGTCACTATTGACACTGTTGTTATATAGCTCTCGATCATTTT 241
XX |||||||
XX Db 1 ATGATAAATATATAGTCACTATTGACACTGTTGTTATATAGCTCTCGATCATTTT 60
XX
XX 242 ACAATTTTCAGAACTCCCAAAAGTTGGTCTGCTAAACTATACATCCCTCCAT 301
XX |||||||
XX Db 61 ACAATTTTCAGAACTCCCAAAAGTTGGTCTGCTAAACTATACATCCCTCCAT 120
XX
XX 302 TACTGAAACAACTCCACAAAGTCTTATTCCTAAAGACCACTGATATCATTAAGCA 361
XX |||||||
XX Db 121 TACTGAAACAACTCCACAAAGTCTTATTCCTAAAGACCACTGATATCATTAAGCA 180
XX
XX 362 CTAACAGAGACTGAATCAAGATTAAGAAATCATAGAAATAGTACGAGATCCCA 421
XX |||||||

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Db 181 CTACAGAGACTGAATCAAGATTAAGAAATCATAGAAATAGTACATGATGATGCCA 240
Oy 422 CCACAGACCTTTCACCGACGTAAGAACCAACCAACCAACCAACCAATAGACAGCCACCA 481
Db 241 CCACAGACCTTTCACCGACGTAAGAACCAACCAACCAACCAATAGACAGCCACCA 300
Oy 482 CTCACACCTTCAGATACGATCTGACAGGAGAGACCAAGCTGACATCTCTCTGAGGTAA 541
Db 301 CTCACACCTTCAGATACGATCTGACAGGAGAGACCAAGCTGACATCTCTCTGAGGTAA 360
Oy 542 GACCACTTGGAGCAGAGAGCAATATAGGAGGATTTCTGAGGAGCAAGATCTCTCT 401
Db 361 GACCACTTGGAGCAGAGAGCAATATAGGAGGATTTCTGAGGAGCAAGATCTCTCT 420
Oy 602 CCAGCCCTGATGAGAGGCTGCTTCAGGAAAGTCACTGATCAACCAAGCACTTACCT 461
Db 421 CCAGCCCTGATGAGAGGCTGCTTCAGGAAAGTCACTGATCAACCAAGCACTTACCT 480
Oy 662 GTGAGCTTACTCTGTTCTGAGAGGAGGAGGCTCTGCTGCTGCTGCTGCTGCTGCTG 721
Db 481 GTGAGCTTACTCTGTTCTGAGAGGAGGAGGCTCTGCTGCTGCTGCTGCTGCTGCTG 540
Oy 722 ACTGAAGGGGTGTCAGCTCTCTGAGTGCAGAGCAAGGCTATGCAAGGCTATGCT 781
Db 541 ACTGAAGGGGTGTCAGCTCTCTGAGTGCAGAGCAAGGCTATGCAAGGCTATGCT 600
Oy 782 ACTGGGCACTTGTGCAATGGCACTTCCCAAGTCCAGTCTGATGTGGGCTGATCC 841
Db 601 ACTGGGCACTTGTGCAATGGCACTTCCCAAGTCCAGTCTGATGTGGGCTGATCC 660
Oy 842 ACAATATGCTGAATTTGTCAGCTCTCTGAGTGCAGAGCAAGGCTATGCT 901
Db 661 ACAATATGCTGAATTTGTCAGCTCTCTGAGTGCAGAGCAAGGCTATGCT 720
Oy 902 AGGCGTCAACATCCCTGCTGCTGCACTCACTACATGATGCTTAAAGCAAGAA 961
Db 721 AGGCGTCAACATCCCTGCTGCTGCACTCACTACATGATGCTTAAAGCAAGAA 780
Oy 962 TCTTATCTTACGAAACAAAGAAAGACCTCTTGAAGGTCAATGCGGTGTAGAAAT 1021
Db 781 TCTTATCTTACGAAACAAAGAAAGACCTCTTGAAGGTCAATGCGGTGTAGAAAT 840
Oy 1022 ATGAAAAATTCATATACATTAAGTGTCTGCAAAATGCAACA 1061
Db 841 ATGAAAAATTCATATACATTAAGTGTCTGCAAAATGCAACA 880
XX
XX RESULT 4
XX AAS76631:
XX ID AAS76631 standard: cDNA: 1137 BP.
XX AC AAS76631:
XX XX
XX DT 13-FEB-2002 (first entry)
XX XX
XX DE DNA encoding novel human diagnostic protein #12435.
XX XX
XX KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.
XX OS Homo sapiens.
XX PN WO200175067-A2.
XX PD 11-OCT-2001.
XX XX
XX PF 30-MAR-2001; 2001WO-US08631.
XX PR 31-MAR-2000; 2000US-0540217.
XX PR 23-AUG-2000; 2000US-0649167.
XX XX
XX PA (HYSE-) HYSEQ INC.
XX

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PI Drmanac RT, Liu C, Tang YF;  
 XX MPI: 2001-639362/73.  
 DR P-PSDB: A012444.  
 XX  
 XX New isolated polynucleotide and encoded polypeptides, useful in  
 PT diagnostics, forensics, gene mapping, identification of mutations  
 PT responsible for genetic disorders or other traits and to assess  
 PT biodiversity.  
 XX  
 PS Claim 1: SEQ ID NO 12435; 103pp; English.  
 XX  
 CC The invention relates to isolated polynucleotide (I) and  
 CC polypeptide (II) sequences. (I) is useful as hybridisation probes,  
 CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
 CC and gene mapping, and in recombinant production of (II). The  
 CC polynucleotides are also used in diagnostics as expressed sequence tags  
 CC for identifying expressed genes. (I) is useful in gene therapy techniques  
 CC to restore normal activity of (II) or to treat disease states involving  
 CC (II). (II) is useful for generating antibodies against it, detecting or  
 CC quantitating a polypeptide in tissue, as molecular weight markers and as  
 CC a food supplement. (II) and its binding partners are useful in medical  
 CC imaging of sites expressing (II). (I) and (II) are useful for treating  
 CC disorders involving aberrant protein expression or biological activity.  
 CC The polypeptide and polynucleotide sequences have applications in  
 CC diagnostics, forensics, gene mapping, identification of mutations  
 CC responsible for genetic disorders or other traits to assess biodiversity  
 CC and to produce other types of data and products dependent on DNA and  
 CC amino acid sequences. A0564197-A0594564 represent novel human  
 CC diagnostic coding sequences of the invention.  
 CC Note: The sequence data for this patent did not appear in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp://ipo.int/pub/published\_pat\_sequences.  
 CC  
 SO Sequence 1137 BP; 332 A; 259 C; 254 G; 292 T; 0 other;  
 Query Match 42.9%; Score 694; DB 23; Length 1137;  
 Best Local Similarity 99.5%; Pred. No. 4,6e-294;  
 Matches 944; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 536 GTGAGGACCACTTGGACCCAGCAAAATATGGCGGATTTCTCGAGGCCAGATG 595  
 DB 43 GTGAGGACCACTTGGACCCAGCAAAATATGGCGGATTTCTCGAGGCCAGATG 102  
 QY 596 TCTTCCCGAGCGTATGGAGCTCTTGGAGAAAGTGAATCTTCAACAGCGCAC 655  
 DB 103 TCTTCCCGAGCGTATGGAGCTCTTGGAGAAAGTGAATCTTCAACAGCGCAC 162  
 QY 656 TACCTGTCAGCTTCTGTTCTGGAGGCGCAGGTCTCTGCTGCTGCTATC 715  
 DB 163 TACCTGTCAGCTTCTGTTCTGGAGGCGCAGGTCTCTGCTGCTGCTATC 222  
 QY 716 CACCCAGTGAAGGGTGTGACCTCTGTGAGTCAAGCAAGCAAGCATATGAGGATG 775  
 DB 223 CACCCAGTGAAGGGTGTGACCTCTGTGAGTCAAGCAAGCAAGCATATGAGGATG 282  
 QY 776 ATCTTCAGTGGCCAGTTTGTCAATGGCACTTCCCAAGTCCACTCTTAATGAGGCTATC 835  
 DB 283 ATCTTCAGTGGCCAGTTTGTCAATGGCACTTCCCAAGTCCACTCTTAATGAGGCTATC 342  
 QY 836 CTAAACACAAATGCTGAATGTGCGAGTACCTGAGCAACAGAGCAACCAAGAGCTTCTAC 895  
 DB 343 CTAAACACAAATGCTGAATGTGCGAGTACCTGAGCAACAGAGCAACCAAGAGCTTCTAC 402  
 QY 896 TGTGTAGGCTTCAACACATGCCGTGCTGACACTCACTCATGATTTCTAAGAACAG 955  
 DB 403 TGTGTAGGCTTCAACACATGCCGTGCTGACACTCACTCATGATTTCTAAGAACAG 462  
 QY 956 AAAGTTCTTATCTTACCAAAAGAAAGAGAGCTCTTTGAAGAGTCAATGTGGGTGA 1015  
 DB 463 AAAGTTCTTATCTTACCAAAAGAAAGAGAGCTCTTTGAAGAGTCAATGTGGGTGA 522  
 QY 1016 GAGATTATGAAAAATTCATATACATTAGTGTCTGCAAAATGCAACACACTGAGTCAATG 1075

DB 523 GAGATTATGAAAAATTCATATACATTAGTGTCTGCAAAATGCAACACACTGAGTCAATG 582  
 QY 1076 GATTCGATGAATCTGGAAAAATTCGAAACACAGCTTGTCTGATTTGGATAGAACATC 1135  
 DB 583 GATTCGATGAATCTGGAAAAATTCGAAACACAGCTTGTCTGATTTGGATAGAACATC 642  
 QY 1136 AACATCAGTGGCAAAAATATTGTATTCCTTGTATGATGATCAATGACCTATTCAGTCAAA 1195  
 DB 643 AACATCAGTGGCAAAAATATTGTATTCCTTGTATGATGATCAATGACCTATTCAGTCAAA 702  
 QY 1196 GAGATGAGTATCTCCACCGGCGCATTCGATGCAACCTGAGAGGAAAAAATACCTCAT 1255  
 DB 703 GAGATGAGTATCTCCACCGGCGCATTCGATGCAACCTGAGAGGAAAAAATACCTCAT 762  
 QY 1256 GTTATTTCCCTGGCGCAGATTTCAACACCTTTCCCATTTGATGTTTATCCGAAGGCC 1315  
 DB 763 GTTATTTCCCTGGCGCAGATTTCAACACCTTTCCCATTTGATGTTTATCCGAAGGCC 822  
 QY 1316 CTGAATGTCACAAAGCATTCAGATCTCTCTGAGAAAGCCAGACATATGTTATC 1375  
 DB 823 CTGAATGTCACAAAGCATTCAGATCTCTCTGAGAAAGCCAGACATATGTTATC 882  
 QY 1376 ATCAAAACAGAAAACATCAGGAGATGTACAAATGATGACAGAAAGATTAGACTTTCAT 1435  
 DB 883 ATCAAAACAGAAAACATCAGGAGATGTACAAATGATGATGACAGAAAGATTAGACTTTCAT 942  
 QY 1436 GGTATATTCATATTCATCATTAAGACATTTTCCAGATCTAGT 1484  
 DB 943 GGTATATTCATATTCATCATTAAGACATTTTCCAGATCTAGT 991

RESULT 5  
 A0564131  
 ID A0564131 standard; cDNA; 400 BP.  
 XX  
 AC A0564131;  
 XX  
 DT 28-JUN-2002 (first entry)  
 XX  
 DE Human cancer related polynucleotide SEQ ID NO 1398.  
 XX  
 KW Human; cytosolic; gene expression; gene mapping; tissue profiling;  
 KW gene therapy; cancer; tumour; gene; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN M0200214500-A2.  
 XX  
 PD 21-FEB-2002.  
 XX  
 PF 16-AUG-2001; 2001WO-0525840.  
 XX  
 PR 16-AUG-2000; 2000US-226326P.  
 XX  
 PA (CHIR) CHIRON CORP.  
 PA (HYSE-) HYSEQ INC.  
 XX  
 PI Escobedo J, Garcia PD, Sudduth-Klinger J, Reinhard C, Randazzo F;  
 PI Lanson G, Scott EM, Zhang G, Kassam A, Pot D, Labat I;  
 DR MPI: 2002-241905/29.  
 XX  
 PT New nucleic acid for producing a polypeptide, detecting differentially  
 PT expressed genes correlated with a cancerous state of a mammalian cell,  
 PT and inhibiting tumor growth -  
 XX  
 PS Claim 1: SEQ ID NO 1398; 883bp + Sequence Listing; English.  
 CC The invention relates to an isolated polynucleotide (A0564131-A0564132)  
 CC with cytosolic activity. The polynucleotide is used to produce a  
 CC polypeptide, to detect differentially expressed genes correlated with a  
 CC cancerous state of a mammalian cell and to inhibit tumour growth. The

CC polynucleotide is used as a probe in mapping and tissue profiling. The  
CC encoded polypeptide and antibodies to the polypeptide can also be used  
CC for therapeutic and diagnostic purposes. The polynucleotide is useful for  
CC gene therapy.  
CC Note: The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 400 BP; 110 A; 98 C; 92 G; 100 T; 0 other;  
Query Match 24.8%; Score 400; DB 2; Length 400;  
Best Local Similarity 100.0%; Pred. No. 3.1e-165;  
Matches 400; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
DB 646 CAACGGACCTACCTGCTCAGCTTCACTGTTCTGGAGGGGCGAGGCTCTCTCTCT  
DB 1 CAACGGACCTACCTGCTCAGCTTCACTGTTCTGGAGGGGCGAGGCTCTCTCTCTCTCT  
DB 706 GCTGCTCATCCACCCAGTGAAGGGGCTGACGCTCTGGAGTGCAGAACCAAGCTA 765  
DB 61 GCTGCTCATCCACCCAGTGAAGGGGCTGACGCTCTGGAGTGCAGAACCAAGCTA 120  
DB 766 TGAACGGTATCTTCTACCTGCGCAGTTTGTCAATGCGACTTCCCAAGTCACTGTAATG 825  
DB 121 TGACAGGCTATCTTCACTGCGCAGTTTGTCAATGCGACTTCCCAAGTCACTGTAATG 180  
DB 826 TGCCCTGATCTTAAACACAATGCTGAATTTGGCAGTACCTGGACAACAGACCAAGA 885  
DB 181 TGCCCTGATCTTAAACACAATGCTGAATTTGGCAGTACCTGGACAACAGACCAAGA 240  
DB 886 AGCTTCTACTGTGAGGCTCAACACATGCCCTGTGCTGCACACTGACATGATATTC 945  
DB 241 AGCTTCTACTGTGAGGCTCAACACATGCCCTGTGCTGCACACTGACATGATATTC 300  
DB 946 TAAACACAGAAAGTTCTTATCTTAGCAAAACAGAAAGAGCTTTGAAAGGTAAA 1005  
DB 301 TAAACACAGAAAGTTCTTATCTTAGCAAAACAGAAAGAGCTTTGAAAGGTAAA 360  
DB 1006 TTGGGCTGATGAGATTATGAAAAATTCATCAATTAGT 1045  
DB 361 TTGGGCTGATGAGATTATGAAAAATTCATCAATTAGT 400  
RESULT 6  
AAS92089  
ID AAS92089 standard; cDNA; 437 BP.  
XX  
XX AAS92089;  
DB 13-FEB-2002 (first entry)  
XX  
XX DNA encoding novel human diagnostic protein #27893.  
XX  
XX Human; chromosome mapping; gene mapping; gene therapy; forensic;  
XX food supplement; medical imaging; diagnostic; genetic disorder; ss.  
XX  
XX Homo sapiens.  
XX  
XX W0200175067-A2.  
XX  
XX 11-OCT-2001.  
XX  
XX 30-MAR-2001; 2001WO-US08631.  
XX  
XX 31-MAR-2000; 2000US-0540217.  
XX 23-AUG-2000; 2000US-0649167.  
XX  
XX (HYSE-) HYSEQ INC.  
XX  
XX Drmanac RT, Liu C, Tang YF;  
XX  
XX WPI; 2001-639362/73.  
XX  
XX P-PSDB; ABG27902.

XX  
XX New isolated polynucleotide and encoded polypeptides, useful in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX responsible for genetic disorders or other traits and to assess  
XX biodiversity  
XX  
XX Claim 1: SEQ ID No 27893; 103pp: English.  
XX  
XX The invention relates to isolated polynucleotide (i) and  
XX polypeptide (ii) sequences. (i) is useful as hybridisation probes,  
XX polymerase chain reaction (PCR) primers, oligomers, and for chromosome  
XX and gene mapping, and in recombinant production of (ii) The  
XX polynucleotides are also used in diagnostics as expressed sequence tags  
XX for identifying expressed genes. (i) is useful in gene therapy techniques  
XX to restore normal activity of (ii) or to treat disease states involving  
XX (ii). (ii) is useful for generating antibodies against it, detecting or  
XX quantitating a polypeptide in tissue, as molecular weight markers and as  
XX a food supplement. (ii) and its binding partners are useful in medical  
XX imaging of sites expressing (ii). (i) and (ii) are useful for treating  
XX disorders involving aberrant protein expression or biological activity.  
XX The polypeptide and polynucleotide sequences have applications in  
XX diagnostics, forensics, gene mapping, identification of mutations  
XX and to produce other types of data and products dependent on human  
XX amino acid sequences. AAS64197-AAS94364 represent novel human  
XX diagnostic coding sequences of the invention.  
XX Note: The sequence data for this patent did not appear in the printed  
XX specification, but was obtained in electronic format directly from WIPO  
XX at ftp.wipo.int/pub/published\_pct\_sequences.  
XX  
SQ Sequence 437 BP; 150 A; 101 C; 70 G; 116 T; 0 other;  
Query Match 23.9%; Score 386; DB 23; Length 437;  
Best Local Similarity 99.8%; Pred. No. 4.2e-159;  
Matches 436; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
DB 12 AGTAAACAAACCTGCAATTATCTGCAATTATTTGGTATAGCAAGAGTATATTC 71  
DB 1 AGTAAACAAACCTGCAATTATCTGCAATTATTTGGTATAGCAAGAGTATATTC 60  
DB 72 GTAGCAACTGGTGGCTTCAGAGAAATTCACACACTTACGTCGACAGACGTACAT 141  
DB 61 GTAGCAACTGGTGGCTTCAGAGAAATTCACACACTTACGTCGACAGAGTATATTC 120  
DB 132 ATGGATGAAACATCTGTAACTAAAGATCTTAATCAATGAATAATAGTATCAATAT 191  
DB 121 ATGGATGAAACATCTGTAACTAAAGATCTTAATCAATGAATAATAGTATCAATAT 180  
DB 192 ATAAGTCACTATTGGCAGTGTGTTATATATAGCCTGCGATATTTTACAGTTTC 251  
DB 181 ATAAGTCACTATTGGCAGTGTGTTATATATAGCCTGCGATATTTTACAGTTTC 240  
DB 252 AGAAGTCCAAAGGTTGGTCTGCTAACTATATCATCTCCCTCATATCTGAGACA 311  
DB 241 AGAAGTCCAAAGGTTGGTCTGCTAACTATATCATCTCCCTCATATCTGAGACA 400  
DB 312 ACTCCAAAGTCTTATTTCCCTAAACACACGATATCAATTAAGCCACATACAGACA 471  
DB 301 ACTCCAAAGTCTTATTTCCCTAAACACACGATATCAATTAAGCCACATACAGACA 460  
DB 372 CTGAAGTCAAGATTAAGAAATCATAGAAACTAGATGACGATCCGACCCAGACTT 431  
DB 361 CTGAAGTCAAGATTAAGAAATCATAGAAACTAGATGACGATCCGACCCAGACTT 420  
DB 432 TCACCCAGCTGAACACC 448  
DB 421 TCACCCAGCTGAACACC 437  
RESULT 7  
ABL36592  
ID ABL36592 standard; cDNA; 557 BP.  
XX  
XX

```
AC ABL36592;
XX
XX 08-APR-2002 (first entry)
XX
DE Human colon tumour antigen polynucleotide SEQ ID NO:181.
XX
XX Human: colon cancer; colon tumour antigen; cytosolic; vaccine;
XX Human: colon tumour metastatic antigen; diagnosis; gene; ss.
XX
XX Homo sapiens.
XX
XX W0200196388-A2.
XX
XX 20-DEC-2001.
XX
XX 08-JUN-2001; 2001WO-0518557.
XX
XX 09-JUN-2000; 2000US-210899P.
XX 20-FEB-2001; 2001US-270216P.
XX
XX (CORI-) CORIMA CORP.
XX
XX Jiaq Y, Harlocker SL, Secret H;
XX
XX WPI: 2002-114514/15.
XX
XX Novel isolated colon tumor polynucleotide differentially expressed in
XX colon tumor or colon metastatic tumor and polypeptides encoded by them,
XX useful for inhibiting development of cancer in patient -
XX
XX Claim 1; SEQ ID 181; 105pp; English.
XX
XX ABL36412 to ABL36645 represent human colon tumour antigen cDNA clones (1)
XX which were isolated from human colon tumour and colon metastatic tumour
XX cDNA libraries. (1) have cytosolic activity and can be used in vaccine
XX production. (1) can be used for stimulating and/or expanding T cells
XX specific for a tumour protein on contact with the T cells. They are also
XX useful for inhibiting the development of cancer in a patient. (1) can be
XX used as probes or primers for nucleic acid hybridisation, for preparing
XX mutant species primers, or primers for use in genetic constructions. (1)
XX can be used in the diagnosis of a colon tumour.
XX
XX Sequence 557 BP; 192 A; 112 C; 121 G; 130 T; 2 other;
XX
XX Query Match 12.3%; Score 198; DB 24; Length 557;
XX Best Local Similarity 100.0%; Pred. No. 9.6e-77;
XX Matches 198; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 864 ACCTGGACACAGACACACAGCCCTTACTGTGTACCCCTCAACACATCCCTGTG 923
DB 1 ACCTGGACACAGACACACAGCCCTTACTGTGTAGAGCCCTCAACACATGCCCTGTG 60
OY 924 CTGGACTACATCATGTATTCTAAGACAGAGAAGTTCTTATCTAGCAACAAGAAA 983
DB 61 CTCACACTCACTCATGTATTCTAAGACAGAGAAGTTCTTATCTAGCAACAAGAAA 120
OY 944 AGAGCTCTTTGAAAGTCAATGTGGTGTAGAAATATGAAAAATTCATACATTA 1043
DB 121 AGAGCTCTTTGAAAGTCAATGTGGTGTAGAAATATGAAAAATTCATACATTA 180
OY 1044 GTGTCTCCAAATCCAA 1061
DB 181 GTGTCTCCAAATCCAA 198
XX
XX RESULT 8
XX AAF93741
XX ID AAF93741 standard; cDNA; 275 BP.
XX
XX AAF93741;
XX
XX 21-MAY-2001 (first entry)
XX
XX
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```
DE cDNA encoding SRT protein isolated from testis tissue SEQ ID 562.
XX
XX Human: SRT; gene therapy; gene mapping; tissue typing; ss.
XX
XX Homo sapiens.
XX
XX W0200107611-A2.
XX
XX 01-FEB-2001.
XX
XX 21-JUL-2000; 2000WO-0520006.
XX
XX 26-JUL-1999; 99US-0145701.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Goddard A, Wood WI;
XX
XX WPI: 2001-112729/12.
XX
XX New isolated nucleic acid molecule encoding a SRT polypeptide is useful
XX for production of recombinant SRT polypeptides, gene mapping,
XX diagnosing genetic disorders and for gene therapy -
XX
XX Claim 2; Fig 562; 663pp; English.
XX
XX Sequences AAF93180 - AAF93743 represent polynucleotide sequences encoding
XX human SRT proteins. The cDNA sequences are isolated from various
XX different human tissue cDNA libraries. The invention relates to a method
XX for detecting cDNA encoding an SRT protein, a vector containing cDNA
XX encoding SRT, a host cell transformed with the vector, an isolated SRT
XX polypeptide, and an antibody which binds to SRT. The polynucleotide
XX sequence can be used in gene therapy and is useful in the recombinant
XX production of SRT polypeptides, as a hybridisation probe to screen
XX libraries to isolate cDNAs with sequence identity to SRT polypeptides, to
XX map the gene encoding the SRT polypeptides and analysing genetic
XX disorders, tissue typing and disease tissue detection. The SRT
XX polynucleotide sequences can be used in polymerase chain reaction,
XX screening for new therapeutic molecules and generation of antisense RNA
XX and DNA.
XX
XX Sequence 275 BP; 83 A; 65 C; 43 G; 81 T; 3 other;
XX
XX Query Match 11.9%; Score 192; DB 22; Length 275;
XX Best Local Similarity 100.0%; Pred. No. 4.2e-74;
XX Matches 192; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 81 TGGTGGCTTACGAAAGAAATTTCTCAACCTACTGCGCAGAGAGTATGTGGATG 140
DB 14 TGGTGGCTTACGAAAGAAATTTCTCAACCTACTGCGCAGAGAGTATGTGGATG 73
OY 141 AACAACTGTAACTAAAGATCCTATCATGAAATTAAGATGAATTAATTAAGTCA 200
DB 74 AACAACTGTAACTAAAGATCCTATCATGAAATTAAGATGAATTAATTAAGTCA 133
OY 201 TATGGACCTGTTGTTATATTAACCCCTCGATCATTTATAGATTTCAGAACTCA 260
DB 134 TATGGACCTGTTGTTATATTAACCCCTCGATCATTTATAGATTTCAGAACTCA 193
OY 261 CAAAGTTTGGT 272
DB 194 CAAAGTTTCC 205
XX
XX RESULT 9
XX AAK88279
XX ID AAK88279 standard; cDNA; 817 BP.
XX
XX AAK88279;
XX
XX 05-NOV-2001 (first entry)
XX
XX Human digestive system antigen sequence SEQ ID NO: 595.
XX
XX
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GenCore version 5.1.3  
Copyright (c) 1993 - 2002 Comugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: November 22, 2002, 02:35:41 ; Search time 83 Seconds

(without alignments)

5970.960 Million cell updates/sec

Title: US-09-729-454-3  
Perfect score: 1616  
Sequence: 1 atccatgctaaagtaaac.....aatatacaaaaaaaaaaaaaa 1616

Scoring table:  
Gapop 60.0 , Gapext 60.0

Searched: 441362 seqs, 15338381 residues

Word size: 0

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: listing first 45 summaries

Database: Issued Patents, NA: \*

1: /cgn2\_6/pdata/1/lna/5a\_COMB.seq: \*  
2: /cgn2\_6/pdata/1/lna/5b\_COMB.seq: \*  
3: /cgn2\_6/pdata/1/lna/6a\_COMB.seq: \*  
4: /cgn2\_6/pdata/1/lna/6b\_COMB.seq: \*  
5: /cgn2\_6/pdata/1/lna/PCPUS\_COMB.seq: \*  
6: /cgn2\_6/pdata/1/lna/backfiles1.seq: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
C 1	22	1 4	607 4	US-09-385-982-288	Sequence 288, App
C 2	20	1 2	1967 4	US-08-398-3938-23	Sequence 23, App1
C 3	20	1 2	1968 2	US-08-937-540-3	Sequence 3, App1
C 4	20	1 2	29604 3	US-08-781-891-207	Sequence 207, App
C 5	19	1 2	259 3	US-09-103-359-13	Sequence 13, App1
C 6	19	1 2	425 4	US-09-247-155-73	Sequence 73, App1
C 7	19	1 2	485 4	US-09-385-982-31	Sequence 31, App1
C 8	19	1 2	1005 3	US-09-103-359-4	Sequence 4, App1
C 9	19	1 2	1356 4	US-08-426-169-2	Sequence 2, App1
C 10	19	1 2	1356 4	US-09-233-813-2	Sequence 2, App1
C 11	19	1 2	1356 5	PCT-US95-09470-2	Sequence 2, App1
C 12	19	1 2	1615 4	US-08-308-814-1	Sequence 1, App1
C 13	19	1 2	1809 1	US-08-455-001-1	Sequence 1, App1
C 14	19	1 2	1809 5	PCT-US95-11869-1	Sequence 1, App1
C 15	19	1 2	2038 4	US-09-276-531-37	Sequence 37, App1
C 16	19	1 2	2304 1	US-08-464-266-1	Sequence 1, App1
C 17	19	1 2	2304 1	US-08-464-272-1	Sequence 1, App1
C 18	19	1 2	2304 4	US-08-464-514-1	Sequence 1, App1
C 19	19	1 2	2304 4	US-08-486-403-1	Sequence 1, App1
C 20	19	1 2	2981 4	US-08-257-073-2	Sequence 2, App1
C 21	19	1 2	2981 2	US-08-184-009-119	Sequence 1, App1
C 22	19	1 2	2981 2	US-08-458-356-119	Sequence 119, App
C 23	19	1 2	2987 4	US-08-460-736-119	Sequence 119, App
C 24	19	1 2	3107 4	US-08-213-4198-1	Sequence 1, App1
C 25	19	1 2	6124 4	US-08-213-4198-3	Sequence 3, App1
C 26	19	1 1	45 4	US-09-025-639-1	Sequence 1, App1
C 27	18	1 1	45 4	US-09-333-237-1	Sequence 1, App1

C 28	18	1 1	60 4	US-09-410-960-1	Sequence 1, App1
C 29	18	1 1	60 4	US-09-410-960-3	Sequence 3, App1
C 30	18	1 1	60 4	US-09-410-960-4	Sequence 4, App1
C 31	18	1 1	269 4	US-09-149-476-142	Sequence 142, App
C 32	18	1 1	567 4	US-09-385-982-427	Sequence 427, App
C 33	18	1 1	750 4	US-09-352-990-3	Sequence 3, App1
C 34	18	1 1	809 4	US-08-441-629-1	Sequence 1, App1
C 35	18	1 1	809 3	US-08-776-207-1	Sequence 1, App1
C 36	18	1 1	809 4	US-09-507-773-1	Sequence 1, App1
C 37	18	1 1	809 5	PCT-US95-09172-1	Sequence 1, App1
C 38	18	1 1	815 4	US-09-288-143-24	Sequence 24, App1
C 39	18	1 1	897 4	US-08-899-330-14	Sequence 14, App1
C 40	18	1 1	904 4	US-09-171-209-24	Sequence 24, App1
C 41	18	1 1	1356 1	US-07-603-1338-1	Sequence 1, App1
C 42	18	1 1	1356 4	US-08-426-169-3	Sequence 3, App1
C 43	18	1 1	1356 4	US-09-233-813-3	Sequence 3, App1
C 44	18	1 1	1356 5	PCT-US95-09470-3	Sequence 3, App1
C 45	18	1 1	1460 4	US-09-370-838-80	Sequence 80, App1

#### ALIGNMENTS

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RESULT 1
US-09-385-982-288/c
/ Sequence 288, Application US/09385982
/ Patent No. 6262334
/ GENERAL INFORMATION:
/ APPLICANT: ENDERGE, WILSON O., ET AL.
/ TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
/ FILE REFERENCE: CCDNA-260XX
/ CURRENT APPLICATION NUMBER: US/09/385,982
/ EARLIER FILING DATE: 1999-08-30
/ EARLIER APPLICATION NUMBER: 09/328,111
/ EARLIER FILING DATE: 1999-06-08
/ EARLIER APPLICATION NUMBER: 60/117,393
/ EARLIER FILING DATE: 1999-01-27
/ EARLIER APPLICATION NUMBER: 60/098,639
/ EARLIER FILING DATE: 1998-08-31
/ NUMBER OF SEQ ID NOS: 544
/ SOFTWARE: FASTSEQ for Windows Version 3.0
/ SEQ ID NO: 288
/ LENGTH: 607
/ TYPE: DNA
/ ORGANISM: Homo sapiens
/ FEATURE:
/ NAME/KEY: misc_feature
/ LOCATION: (1)..(607)
/ OTHER INFORMATION: n = A,T,C or G
US-09-385-982-288
Query Match 1 4% Score 22; DB 4; Length 607;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1595 TAAATACCAAAAAAAAAAAAAA 1616
DB 35 TAAATACCAAAAAAAAAAAAAA 14
RESULT 2
US-09-398-395A-23
/ Sequence 23, Application US/09398395A
/ Patent No. 6468772
/ GENERAL INFORMATION:
/ APPLICANT: Chappell, Joseph
/ APPLICANT: No. 64687721, Joseph P.
/ APPLICANT: Starks, Courtney M.
/ APPLICANT: Manna, Kathleen R.
/ TITLE OF INVENTION: SYNTASES
/ FILE REFERENCE: 07678-025001
/ CURRENT APPLICATION NUMBER: US/09/398,395A
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/? CURRENT FILING DATE: 1999-09-17  
/? PRIOR APPLICATION NUMBER: 60/100,993  
/? PRIOR FILING DATE: 1998-09-18  
/? PRIOR APPLICATION NUMBER: 60/130,628  
/? PRIOR FILING DATE: 1999-04-22  
/? PRIOR APPLICATION NUMBER: 60/150,262  
/? PRIOR FILING DATE: 1999-08-23  
/? NUMBER OF SEQ ID NOS: 58  
/? SOFTWARE: FASTSEQ for Windows Version 3.0  
/? SEQ ID NO 23  
/? LENGTH: 1967  
/? TYPE: DNA  
/? ORGANISM: Salvia officinalis  
/? FEATURE:  
/? NAME/KEY: CDS  
/? LOCATION: (13)...(1785)  
/? OTHER INFORMATION: 1,8-cineole synthase  
US-09-398-395A-23

Query Match 1.2%; Score 20; DB 4; Length 1967;  
Best Local Similarity 100.0%; Pred. No. 9.7;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1597 AATACAAAAAAAAAAAAA 1616  
DB 1939 AATACAAAAAAAAAAAAA 1958

RESULT 3  
US-08-937-540-3  
/? Sequence 3, Application US/08937540  
/? Patent No. 5891697  
/? GENERAL INFORMATION:  
/? APPLICANT: Croteau, Rodney B  
/? APPLICANT: Wise, Mitchell L  
/? APPLICANT: Savage, Thomas J  
/? APPLICANT: Katsura, Eva J  
/? TITLE OF INVENTION: Monoterpene Synthases from Common Sage  
/? NUMBER OF SEQUENCES: 15  
/? CORRESPONDENCE ADDRESS:  
/? ADDRESSEE: CHRISTENSEN, O'CONNOR, JOHNSON & KINDNESS  
/? STREET: 1420 FIFTH AVENUE  
/? CITY: SEATTLE  
/? STATE: WASHINGTON  
/? COUNTRY: USA  
/? ZIP: 98101-2347  
/? COMPUTER READABLE FORM:  
/? MEDIUM TYPE: Floppy disk  
/? OPERATING SYSTEM: IBM PC Compatible  
/? SOFTWARE: Patent Release #1.0, Version #1.30  
/? CURRENT APPLICATION DATA:  
/? APPLICATION NUMBER: US/08/937,540  
/? FILING DATE:  
/? CLASSIFICATION:  
/? ATTORNEY/AGENT INFORMATION:  
/? NAME: Shelton, Dennis K  
/? REGISTRATION NUMBER: 26,997  
/? REFERENCE/DOCKET NUMBER: WSUR11254  
/? TELECOMMUNICATION INFORMATION:  
/? TELEPHONE: 206 695 1718  
/? TELEFAX: 206 224 0779  
/? INFORMATION FOR SEQ ID NO: 3:  
/? SEQUENCE CHARACTERISTICS:  
/? LENGTH: 1968 base pairs  
/? TYPE: nucleic acid  
/? STRANDEDNESS: single  
/? TOPOLOGY: linear  
/? MOLECULE TYPE: cDNA  
/? HYPOTHETICAL: NO  
/? ANTI-SENSE: NO  
/? ORIGINAL SOURCE:

/? ORGANISM: Salvia officinalis  
/? IMMEDIATE SOURCE:  
/? CLONE: 1,8-cineole synthase  
/? FEATURE:  
/? NAME/KEY: CDS  
/? LOCATION: 14...1788  
US-08-937-540-3

Query Match 1.2%; Score 20; DB 2; Length 1968;  
Best Local Similarity 100.0%; Pred. No. 9.7;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1597 AATACAAAAAAAAAAAAA 1616  
DB 1940 AATACAAAAAAAAAAAAA 1959

RESULT 4  
US-08-781-891-207  
/? Sequence 207, Application US/08781891  
/? Patent No. 6090620  
/? GENERAL INFORMATION:  
/? APPLICANT: Fu, Ying-Hui  
/? APPLICANT: Yu, Chang-En  
/? APPLICANT: Oshima, Junko  
/? APPLICANT: Mulligan, John T.  
/? APPLICANT: Schellenberg, Gerald D.  
/? TITLE OF INVENTION: GENE AND GENE PRODUCTS RELATED TO  
/? TITLE OF INVENTION: WERNER'S SYNDROME  
/? NUMBER OF SEQUENCES: 209  
/? CORRESPONDENCE ADDRESS:  
/? ADDRESSEE: SEED AND BERRY LLP  
/? STREET: 6300 Columbia Center, 701 Fifth Avenue  
/? CITY: Seattle  
/? STATE: Washington  
/? COUNTRY: USA  
/? ZIP: 98104-7092  
/? COMPUTER READABLE FORM:  
/? MEDIUM TYPE: Floppy disk  
/? OPERATING SYSTEM: IBM PC Compatible  
/? SOFTWARE: Patent Release #1.0, Version #1.30  
/? CURRENT APPLICATION DATA:  
/? APPLICATION NUMBER: US/08/781,891  
/? FILING DATE: 27-DEC-1996  
/? CLASSIFICATION: 800  
/? ATTORNEY/AGENT INFORMATION:  
/? NAME: No. 6090620lenburg Ph.D., Carol  
/? REGISTRATION NUMBER: 39,317  
/? REFERENCE/DOCKET NUMBER: 240052,419  
/? TELECOMMUNICATION INFORMATION:  
/? TELEPHONE: (206) 622-4900  
/? TELEFAX: (206) 682-6031  
/? INFORMATION FOR SEQ ID NO: 207:  
/? SEQUENCE CHARACTERISTICS:  
/? LENGTH: 29604 base pairs  
/? TYPE: nucleic acid  
/? STRANDEDNESS: single  
/? TOPOLOGY: linear  
US-08-781-891-207

Query Match 1.2%; Score 20; DB 3; Length 29604;  
Best Local Similarity 100.0%; Pred. No. 8.4;  
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1597 AATACAAAAAAAAAAAAA 1616  
DB 12364 AATACAAAAAAAAAAAAA 12383

RESULT 5  
US-09-103-359-13/c  
/? Sequence 13, Application US/09103359

```

Patent No. 6057108
GENERAL INFORMATION:
APPLICANT: Hillman, Jennifer L.
APPLICANT: Bandman, Olga
APPLICANT: Guebler, Karl J.
APPLICANT: Corley, Neil C.
APPLICANT: Yee, Henry
APPLICANT: Patterson, Chandra
TITLE OF INVENTION: HUMAN ARP-RELATED PROTEINS
NUMBER OF SEQUENCES: 14
CORRESPONDENCE ADDRESS:
ADDRESSER: Incyte Pharmaceuticals, Inc.
STREET: 3174 Porter Drive
CITY: Palo Alto
STATE: CA
COUNTRY: USA
ZIP: 94304
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/103,359
FILING DATE: HEREWITH
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Cerrone, Michael C.
REGISTRATION/DOCKET NUMBER: 39,132
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-855-0555
TELEFAX: 650-855-0572
TELEX:
INFORMATION FOR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
LENGTH: 259 base pairs
TYPE: nucleic acid
STANDARDS: single
TOPOLOGY: linear
IMMEDIATE SOURCE:
LIBRARY: GIBLANT01
CLONE: 2614213H1
US-09-103-359-13

Query Match
Best Local Similarity 1.28; Score 19; DB 3; Length 259;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 939 TGTATCTAAGAACAAAGAA 957
DB 34 TGTATCTAAGAACAAAGAA 16

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EARLIER APPLICATION NUMBER: 60/096,116
EARLIER FILING DATE: 1998-08-10
EARLIER APPLICATION NUMBER: 60/099,273
EARLIER FILING DATE: 1998-10-04
NUMBER OF SEQ ID NOS: 182
SOFTWARE: Patent.pm
SEQ ID NO 73
LENGTH: 425
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: CDS
LOCATION: 55..291
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 55..255
OTHER INFORMATION: Von Heljne matrix
OTHER INFORMATION: seq LISTVASTEMGFC/VL
FEATURE:
NAME/KEY: polyA_signal
LOCATION: 390..395
FEATURE:
NAME/KEY: polyA_site
LOCATION: 410..425
US-09-247-155-73

Query Match
Best Local Similarity 1.28; Score 19; DB 4; Length 425;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1598 ATACACAAACAAACAAACAA 1616
DB 405 ATACACAAACAAACAAACAA 423

RESULT 7
US-09-385-982-31/C
Sequence 31, Application US/09385982
Patent No. 6262334
GENERAL INFORMATION:
APPLICANT: ENDEGR, WILSON O., ET AL.
TITLE OF INVENTION: NOVEL HUMAN GENES AND GENE EXPRESSION
PRODUCTS: IT
FILE REFERENCE: CCDA-260XX
CURRENT APPLICATION NUMBER: US/09/385,982
EARLIER APPLICATION NUMBER: 09/328,111
EARLIER FILING DATE: 1999-06-08
EARLIER APPLICATION NUMBER: 60/117,393
EARLIER FILING DATE: 1999-01-27
EARLIER APPLICATION NUMBER: 60/098,639
EARLIER FILING DATE: 1998-08-31
NUMBER OF SEQ ID NOS: 544
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 31
LENGTH: 485
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)..(485)
OTHER INFORMATION: n - A,T,C or G
US-09-385-982-31

Query Match
Best Local Similarity 1.28; Score 19; DB 4; Length 485;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 939 TGTATCTAAGAACAAAGAA 957
DB 54 TGTATCTAAGAACAAAGAA 36

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RESULT 8  
US-09-103-359-4/C  
Sequence 4, Application US/09103359  
Patent No. 6057108  
GENERAL INFORMATION:  
APPLICANT: Hillman, Jennifer L.  
APPLICANT: Bandman, Olga  
APPLICANT: Guegler, Karl J.  
APPLICANT: Corley, Neil C.  
APPLICANT: Yue, Henry  
APPLICANT: Patterson, Chandra  
TITLE OF INVENTION: HUMAN ARF-RELATED PROTEINS  
NUMBER OF SEQUENCES: 14  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Inocyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows  
SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/103,359  
FILING DATE: HEREMITH  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Certone, Michael C  
REGISTRATION NUMBER: 39,132  
REFERENCE/DOCKET NUMBER: PF-0537 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-855-0555  
TELEFAX: 650-855-0572  
TELEX:  
INFORMATION FOR SEQ ID NO: 4:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1005 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
LIBRARY: COLNOT13  
CLONE: 1333754  
US-09-103-359-4

Query Match 1.2%: Score 19; DB 3; Length 1005;  
Best Local Similarity 100.0%; Pred. No. 28;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1Y 939 TGTATTCAGACAGAA 957  
2b 33 TGTATTCAGACAGAA 15

RESULT 9  
US-08-426-169-2  
Sequence 2, Application US/08426169  
Patent No. 5620896  
GENERAL INFORMATION:  
APPLICANT: Herrmann, John E.  
APPLICANT: Robinson, Harriet L.  
APPLICANT: Fyann, Ellen F.  
TITLE OF INVENTION: DNA VACCINES AGAINST ROTAVIRUS  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:

ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/426,169  
FILING DATE: 20-Apr-1995  
CLASSIFICATION: 424  
ATTORNEY/AGENT INFORMATION:  
NAME: Fasse, J. Peter  
REGISTRATION NUMBER: 32,983  
REFERENCE/DOCKET NUMBER: 04020/049001  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 542-8906  
TELEFAX: (617) 542-5070  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1356 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
ORIGINAL SOURCE:  
ORGANISM: Human rotavirus VP6  
US-08-426-169-2

Query Match 1.2%: Score 19; DB 1; Length 1356;  
Best Local Similarity 100.0%; Pred. No. 28;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1408 TGTATCGACAGATTAGT 1426  
Db 704 TGTATCGACAGATTAGT 722

RESULT 10  
US-09-733-813-2  
Sequence 2, Application US/09233813  
Patent No. 6165993  
GENERAL INFORMATION:  
APPLICANT: Herrmann, John E.  
APPLICANT: Robinson, Harriet L.  
APPLICANT: Fyann, Ellen F.  
TITLE OF INVENTION: DNA VACCINES AGAINST ROTAVIRUS INFECTIONS  
FILE REFERENCE: 04020/049003  
CURRENT APPLICATION NUMBER: US/09/233,813  
CURRENT FILING DATE: 1998-03-02  
EARLIER APPLICATION NUMBER: US 08/842,563  
EARLIER FILING DATE: 1997-04-15  
EARLIER APPLICATION NUMBER: US 08/426,169  
EARLIER FILING DATE: 1995-04-20  
EARLIER APPLICATION NUMBER: US 08/187,879  
EARLIER FILING DATE: 1994-01-27  
EARLIER APPLICATION NUMBER: US 08/009,833  
EARLIER FILING DATE: 1993-01-27  
EARLIER APPLICATION NUMBER: US 07/855,562  
EARLIER FILING DATE: 1992-03-23  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO 2  
LENGTH: 1356  
TYPE: DNA  
ORGANISM: Human rotavirus VP6  
US-09-733-813-2

Query Match 1.2%: Score 19; DB 4; Length 1356;



Host Local Similarity 100.0%; Pred. No. 28;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1408 TGATCGAGAAAGATTAGT 1426  
|||||  
DB 704 TGATCGAGAAAGATTAGT 722

## RESULT 11

PCT-US95-09470-2

Sequence 2, Application PC/TUS9509470

GENERAL INFORMATION:  
APPLICANT: UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER  
TITLE OF INVENTION: DNA VACCINES AGAINST ROTAVIRUS  
NUMBER OF SEQUENCES: 6  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Fish & Richardson P.C.  
STREET: 225 Franklin Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02110-2804

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/09470  
FILING DATE: 26-JUL-95  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/426,169  
FILING DATE: 20-APR-1995  
CLASSIFICATION:  
ATTORNEY/AGENT INFORMATION:  
NAME: Fasso, J. Peter

REGISTRATION NUMBER: 32,983  
REFERENCE/DOCKET NUMBER: 04020/049W01  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617)542-5070  
TELEFAX: (617) 542-8906

INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1356 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
ORIGINAL SOURCE:  
ORGANISM: Human rotavirus VP6

PCT-US95-09470-2

Query Match 1.2%; Score 19; DB 5; Length 1356;  
Host Local Similarity 100.0%; Pred. No. 28;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1408 TGATCGAGAAAGATTAGT 1426  
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DB 704 TGATCGAGAAAGATTAGT 722

## RESULT 12

US-08-308-814-1

Sequence 1, Application US/08308814  
Patent No. 6268476

GENERAL INFORMATION:  
APPLICANT: Flanagan, John G.  
APPLICANT: Cheng, Hwai-Jong  
TITLE OF INVENTION: EPH Receptor Ligands, and Uses Related  
TITLE OF INVENTION: Therto  
NUMBER OF SEQUENCES: 2

CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII(txt)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/308,814  
FILING DATE: 19-SEP-1994  
CLASSIFICATION: 435

ATTORNEY/AGENT INFORMATION:  
NAME: Vincent, Matthew P.  
REGISTRATION NUMBER: 36,709  
REFERENCE/DOCKET NUMBER: HMT-011  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (617) 227-7400  
TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1615 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA

FEATURE:  
NAME/KEY: CDS  
LOCATION: 10..636  
FEATURE:  
NAME/KEY: sig-peptide  
LOCATION: 10..69  
US-08-308-814-1

Query Match 1.2%; Score 19; DB 4; Length 1615;  
Host Local Similarity 100.0%; Pred. No. 27;  
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1598 ATACCAAAAAAAAAAAAAA 1616  
|||||  
DB 1534 ATACCAAAAAAAAAAAAAA 1552

## RESULT 13

US-08-455-001-1

Sequence 1, Application US/08455001  
Patent No. 5795734

GENERAL INFORMATION:  
APPLICANT: Flanagan, John G.  
APPLICANT: Cheng, Hwai-Jong  
TITLE OF INVENTION: EPH Receptor Ligands, and Uses Related  
TITLE OF INVENTION: Therto  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: LAHIVE & COCKFIELD  
STREET: 60 State Street  
CITY: Boston  
STATE: MA  
COUNTRY: USA  
ZIP: 02109

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: ASCII (text)  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/455,001  
FILING DATE: 31 MAY 1995  
CLASSIFICATION: 800

```

: ATTORNEY/AGENT INFORMATION:
: NAME: Vincent, Matthew P.
: REGISTRATION NUMBER: 36,709
: REFERENCE/DOCKET NUMBER: HMI-011CP2
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1809 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: both
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 265..891
: FEATURE:
: NAME/KEY: 5'UTR
: LOCATION: 1..264
: FEATURE:
: NAME/KEY: 3'UTR
: LOCATION: 892..1809
: FEATURE:
: NAME/KEY: sig.peptide
: LOCATION: 255..324
: US-08-455-001-1

```

```

Query Match
Best Local Similarity 100.0%; Score 19; DB 1; Length 1809;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

37 1598 ATACACAAAAA 1616
Db 1789 ATACACAAAAA 1807

```

```

RESULT 14
PCT-US95-11869-1
: Sequence 1, Application PC/TUS9511869
: GENERAL INFORMATION:
: APPLICANT:
: TITLE OF INVENTION: Eph Receptor Ligands, and Uses Related
: TITLE OF INVENTION: Theteto
: NUMBER OF SEQUENCES: 5
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE:
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: PCT/US95/11869
: FILING DATE: 19-SEP-1995
: ATTORNEY/AGENT INFORMATION:
: NAME: Vincent, Matthew P.
: REGISTRATION NUMBER: 36,709
: REFERENCE/DOCKET NUMBER: HMI-011CP2C
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (617) 227-7400
: TELEFAX: (617) 227-5941
: INFORMATION FOR SEQ ID NO: 1:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1809 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: both
: TOPOLOGY: linear
: MOLECULE TYPE: cDNA
: FEATURE:
: NAME/KEY: CDS
: LOCATION: 265..891
: FEATURE:
: NAME/KEY: 5'UTR
: LOCATION: 1..264

```

```

: FEATURE:
: NAME/KEY: 3'UTR
: LOCATION: 892..1809
: FEATURE:
: NAME/KEY: sig.peptide
: LOCATION: 255..324
: PCT-US95-11869-1

```

```

Query Match
Best Local Similarity 100.0%; Score 19; DB 5; Length 1809;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 1598 ATACACAAAAA 1616
Db 1789 ATACACAAAAA 1807

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RESULT 15
US-09-276-531-37/C
: Sequence 37, Application US/09276531
: Patent No. 6183968
: GENERAL INFORMATION:
: APPLICANT: Bandman, Olga
: APPLICANT: Lal, Preeti
: APPLICANT: Hillman, Jennifer L.
: APPLICANT: Yue, Henry
: APPLICANT: Reddy, Koopa
: APPLICANT: Guegler, Karl J.
: APPLICANT: Baughn, Mariah R.
: TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF GENES ENCODING
: NUMBER OF SEQUENCES: 134
: CORRESPONDENCE ADDRESS:
: ADDRESS: INCYTE PHARMACEUTICALS, INC.
: STREET: 3174 PORTER DRIVE
: CITY: PALO ALTO
: STATE: CALIFORNIA
: COUNTRY: USA
: ZIP: 94304
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Floppy disk
: COMPUTER: IBM PC compatible
: OPERATING SYSTEM: PC-DOS/MS-DOS
: SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/09/276,531
: FILING DATE: Herewith
: CLASSIFICATION:
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER: 60/079,677
: FILING DATE: March 27, 1998
: CLASSIFICATION:
: ATTORNEY/AGENT INFORMATION:
: NAME: Lynn E. Murry, Ph.D.
: REGISTRATION NUMBER: 42,918
: REFERENCE/DOCKET NUMBER: PA-0008 US
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: (650) 855-0555
: TELEFAX: (650) 845-4166
: INFORMATION FOR SEQ ID NO: 37:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 2036 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: single
: TOPOLOGY: linear
: IMMEDIATE SOURCE:
: LIBRARY: PROSTUT05
: CLONE: 838871
: US-09-276-531-37

```

```

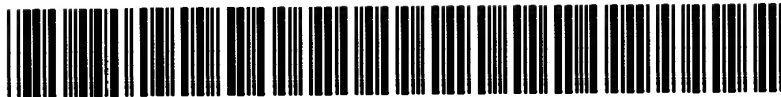
Query Match
Best Local Similarity 100.0%; Score 19; DB 4; Length 2036;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

OY 353 TTAAAGCCTAACAGAGA 371  
|||||  
Db 1071 TTAAAGCCTAACAGAGA 1053

Search completed: November 22, 2002, 04:31:19  
Job time: 128 secs

US 097294540DP1



Creation date: 12-01-2003  
Indexing Officer: IMULAMBA - ISIDORE MULAMBA  
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Legal Date: 11-27-2002

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5	NPL	2
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Remarks:

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